MATERIAL SAFETY DATA SHEET Geon™ DB1416 ORANGE

Version Number 1.5 Revision Date 06/13/2013

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1. PRODUCT AND COMPANY IDENTIFICATION POLYONE CORPORATION 8155 Cobb Center Drive, Kennesaw, GA 30152 Telephone : 1 (440) 930-1000 or 1 (866) POLYONE Emergency telephone : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Product name Product code		Geon™ DB1416 ORANGE FO20007845
Chemical Name	:	Mixture
CAS-No. Product Use		Mixture Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Distillates (petroleum), hydrotreated light	64742-47-8	1 - 5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants 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. See sections 8 and 11 for special precautions. Do not use this pigment in polymers at temperatures over 200°C (392°F). Decomposition of diarylide pigments in polymers at temperatures over 200°C (392°F) may produce trace amounts of monoazo dyes, which in turn can decompose to produce aromatic amines. The amount and type of degradation products formed depend on the dwell time, formulation and processing conditions as well as temperature. As conditions become more severe, as when temperatures move into the 240-300°C (464-572°F) range, trace quantities of 3,3'-dichlorobenzidine can be generated. 3,3'-dichlorobenzidine is classified as a suspect carcinogen by NTP and IARC, is classified as Acute Toxicity category 4 and Carcinogen Category 1B according to 1272/2008EC (CLP), and is regulated by OSHA as a suspect carcinogen. In order to avoid the generation of and exposure to 3,3'-dichlorobenzidine, do not use diarylide pigments in polymers when temperatures exceed 200°C (392°F). Handle with care. Organic dusts have the potential to be explosive with static spark or flame initiation.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:

: Inhalation, Skin contact, Ingestion

Acute exposure

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Ingestion Eyes Skin	 tract. May be harmful if swallowed. May cause eye and skin irritation. 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 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 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 seek medical attention.
	5. FIREFIGHTING MEASURES
Flash point	: no data available
Flammable Limits	
Upper explosion limit	: no data available
Lower explosion limit Auto-ignition temperature	: no data available : Not applicable
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	 May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions. 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.

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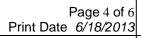
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Environmental precautions		The product should not be allowed to enter drains, water courses or the soil. Should not be released into the environment.		
Methods for cleaning up	ł	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Package all material in appropriate container for disposal.		
	7	. HANDLING AND STORA	GE	
Handling	: I f I	Heat only in areas with appropriate exhaust ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials.		due.
Storage		Keep containers dry and tightly and contamination. Store in a contamination.		absorption
8. EX	KPOSURI	E CONTROLS/PERSONAL	PROTECTION	
Respiratory protection	: 1	No personal respiratory protect	ive equipment normally r	equired.
Eye/Face Protection	: 5	Safety glasses with side-shields		
Hand protection	: 1	Protective gloves		
Skin and body protection	: 1	Long sleeved clothing		
Additional Protective Measures	: 5	Safety shoes		
General Hygiene Considerations		Handle in accordance with goo practice. Wash hands before by		
Engineering measures		Heat only in areas with appropript appropriate exhaust ventilation		Provide
Exposure limit(s)				
Components	Value	Exposure time	Exposure type	List:
Distillates (petroleum), hydrotreated light	200 mg/m3	Time Weighted Average (TWA):	Non-aerosol as total hydrocarbon vapor	ACGIH
	9. PHYSI	CAL AND CHEMICAL PRO	OPERTIES	
Form	: liqu	id Evapo	ouration rate : Not	established
Appearance	: visc	ous, liquid Specif	ic Gravity : Not	determined
Colour Odour		DRANGEBulk density: Not applicableery faintVapour pressure: Not determined		
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Melting point/range Boiling Point: Water solubility	: not applicable : not applicable : immiscible	Vapour density pH	: Not determined : Not applicable
	10. STABILITY AN	D REACTIVITY	
Stability	: The product is stal	ble if stored and handled a	s prescribed.
Hazardous Polymerization	: Will not occur.		
Conditions to avoid	: Keep away from o decomposition, do	xidizing agents and open not overheat.	flame. To avoid thermal
Incompatible Materials		strong acids and oxidizin olymers and acetal copoly	
Hazardous decomposition products	(NOx), hydrogen of smoke are all possi- degradation. As a after one hour at 1 °F), and within 5 r pigment in polyme Decomposition of over 200°C (392°I which in turn can amount and type of time, formulation As conditions becc the 240-300°C (46 dichlorobenzidine classified as a susp Acute Toxicity cat 1272/2008EC (CL carcinogen. In oro dichlorobenzidine, temperatures excer	O2), carbon monoxide (C chloride (HCl), other haza ible. Prolonged heating n general rule of thumb, de 77 °C (350 °F), after 10 n ninutes at 232 °C (450 °F) ers at temperatures over 20 diarylide pigments in poly 7) may produce trace amon decompose to produce aroo f degradation products for and processing conditions ome more severe, as when 44-572°F) range, trace qua can be generated. 3,3'-dio bect carcinogen by NTP ar egory 4 and Carcinogen C P), and is regulated by OS ler to avoid the generation , do not use diarylide pign ed 200°C (392°F). Handle ential to be explosive with	rdous materials, and hay result in product gradation begins to occur hinutes at 204 °C (400). Do not use this 00°C (392°F). ymers at temperatures unts of monoazo dyes, omatic amines. The rmed depend on the dwell as well as temperature. In temperatures move into inities of 3,3'- chlorobenzidine is and IARC, is classified as Category 1B according to SHA as a suspect in of and exposure to 3,3'- ments in polymers when e with care. Organic
	11. TOXICOLOGICA	L INFORMATION	
This mixture has not been ev health data for the individual <u>Toxicity Overview</u> This product contains the foll	components which compr	ise the mixture.	
CAS-No.	Chemical Name	Effect	Target Organ

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	12. ECOLOGICAL INFORMATION
Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Environmental toxicity has not been established for this mixture as a whole.
Bioaccumulation Potential	: no data available
Additional advice	: no data available
	13. DISPOSAL CONSIDERATIONS
Product	: 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 material 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	: Refer to specific regulation.
ICAO/IATA	: 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 TSCA Inventory.
US. EPA CERCLA Hazardous	Substances (40 CFR 302)
not applicable	
California Proposition 65	: WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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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 regula
SARA Title III Section 313 Toxic Chemicals:
Unless specific chemicals are identified under this section, this product is Not Applicable under this regula
Canadian Regulations:
National Pollutant Release Inventory (NPRI)
not applicable
WHMIS Classification : Not controlled.
DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
National Inventories:
Australia AICS : Not determined
China IECS : Not determined
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.