PolyOne

MATERIAL SAFETY DATA SHEET **YELLOW 4**

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POLYONE CORPORATI 33587 Walker Road, Avoi		OH 44012
Telephone Emergency telephone number	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	YELLOW 4
Product code	:	CC10136517
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

Components	CAS-No.	Weight percent
Boric acid (H3BO3)	10043-35-3	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.
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.

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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. FIREFIGHTING MEASURES
Flash point	: not applicable
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition 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. 6. ACCIDENTAL RELEASE MEASURES
	0. 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.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.



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Storage		Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.			
8.]	EXPOSURE	E CONTROLS/PERSONAL I	PROTECTION		
Respiratory protection	: N	No personal respiratory protecti	ve equipment normally r	equired.	
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:	
Boric acid (H3BO3)	2 mg/m3	Time Weighted Average (TWA):	Inhalable fraction.	ACGIH	

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	6 mg/m3	Short Term Exposure Limit (STEL):	Inhalable fraction.	ACGIH
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	6 mg/m3	Short Term Exposure Limit (STEL):	Inhalable fraction.	ACGIH

9. PHYSICAL AND CHEMICAL PROPERTIES

Form
Appearance
Colour
Odour
Melting point/range
Boiling Point:
Water solubility

: solid : pellets : YELLOW : very faint Not determined not applicable insoluble

:

:

:

:

Evapouration rate Specific Gravity Bulk density Vapour pressure Vapour density pН

The product is stable if stored and handled as prescribed.

Not applicable : Not determined : Not established : not applicable : : not applicable not applicable :

10. STABILITY AND REACTIVITY

Stability

Hazardous Polymerization

: Will not occur.

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Conditions to avoid	:		om oxidizing agents n, do not overheat.	and open flame. T	o avoid thermal
Incompatible Material	ls :	Incompatible	with strong acids an	d oxidizing agents.	
Hazardous decomposi products	tion :		de (CO2), carbon mo hazardous materials,		
	11.	TOXICOLOG	ICAL INFORMAT	TION	
This mixture has not be health data for the ind <u>Toxicity Overview</u> This product contains	ividual comp	onents which co	omprise the mixture.		
CAS-No.	Cher	nical Name	Effect	Targ	et Organ
CAS-No. 10043-35-3	Boric acid	nical Name (H3BO3)	RouteOralLD50OralLD50OralLD50OralLD50DermalLD50	Value 2,660 mg/kg2,660 mg/kg3,450 mg/kg2.95 g/kg 2,000 mg/kg	Species ratratmouseC ken rabbit
	1	2. ECOLOGIO	CAL INFORMATI	ON	
Persistence and degrad		Not readily b			
Environmental Toxicity :		: Chemicals are not readily available as they are bound within the polymer matrix.			
Bioaccumulation Pote	ential :	Chemicals are polymer matr	e not readily availab ix.	le as they are bound	l within the
Additional advice	:	no data availa	able		
	1	3 DISPOSAT	CONSIDERATIO	NS	
	1	J. DISI USAL			ecycled. Where

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Contaminated packaging	: Recycling is preferred w material has the respons transportation and dispo state/provincial and loca	ibility for proper vosal in accordance	waste classification,
	14. TRANSPORT INFO	RMATION	
U.S. DOT Classification	: Not regulated for transp	ortation.	
ICAO/IATA	: Refer to specific regulat	ion.	
IMO/IMDG (maritime)	: Refer to specific regulat	ion.	
	15. REGULATORY INFO	ORMATION	
US Regulations:			
OSHA Status	: Classified as hazardous	based on compone	ents.
TSCA Status	: All components of this TSCA Inventory.	product are listed	on or exempt from the
US. EPA CERCLA Hazardous	s Substances (40 CFR 302)		
not applicable			
California Proposition 65	: Not applicable		
SARA Title III Section 302 Ex	stremely Hazardous Substance		
Unless specific chemicals are i	identified under this section, th	is product is Not A	Applicable under this regulation
SARA Title III Section 313 To	oxic Chemicals:		
	identified under this section, th	-	
Chemical Name VANADIUM COMPOUND	DSVANADIUM	CAS-No. 14059-33-7	Weight percent5.00 - 10.00
COMPOUNDS ZINC COMPOUNDS		1314-98-3	10.00 - 30.00
		1011700	10.00 50.00
Canadian Regulations:			
National Pollutant Rele	ase Inventory (NPRI)		

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Chemical Name			CAS-No.	Weight	NPRI ID#
				percent	
Bismuth vanadium oxide (BiVO4)			14059-33-7	5.00 - 10.00	
				5.00 - 10.00	
				5.00 - 10.00	
Zinc sulfide			1314-98-3	10.00 - 30.00	
WHMIS Classification	:	D2A			
	1	T 1 .			
WHMIS Ingredient Dis	closu	ire List			
CAS-No.					
10043-35-3					
DSL	:			re on the Canadian	Domestic
		Substances List	t (DSL) or are exer	npt.	
ational Inventories:					
Australia AICS	:	Not determined			
China IECS	:	Not determined	l		
		Listed			
Europe EINECS	:	Listed			
-	:	Not determined	l		
Japan ENCS	:	Not determined			
-					
Japan ENCS	:	Not determined	l		

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.