### **M58A0 GREEN 86**

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# SAFETY DATA SHEET

### M58A0 GREEN 86

Section 1. Identification		
GHS product identifier	:	M58A0 GREEN 86
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10191165
Product type	:	solid
	tance	or mixture and uses advised against
Product use	:	Industrial applications. Plastics.
Supplier's details		POLYONE CORPORATION
Supplier s details	•	
		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).

## Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. All ingredients are bound in a PVC polymer matrix and potential for hazardous exposure as shipped is minimal. PVC resin is manufactured from Vinyl Chloride Monomer (VCM). PVC resin manufacturers take special efforts to strip residual VCM from their resins. Residual VCM in the resin is typically below 8.5 ppm. However, VCM is a known carcinogen. The end-user (fabricator) should take necessary precautions (mechanical ventilation, local exhaust, respiratory protection, etc.) to protect employees from exposure to any vapors or dusts that may be released during heating or fabrication. See Sections 8 and 11 for special precautions.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.

#### GHS label elements

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Signal word	:	No signal word.
Hazard statements	:	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	:	CC10191165

#### CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	10 - 25	13463-67-7
Carbon black	0 - 0.3	1333-86-4

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, occasional upper and lower eyelids. Check for and remove any con Get medical attention if irritation occurs.	
Inhalation	: Remove victim to fresh air and keep at rest in a position for breathing. Get medical attention if symptoms occur. inhalation of decomposition products in a fire, symptom delayed. The exposed person may need to be kept under	In case of as may be

	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	:	No known significant effects or critical hazards.
Skin contact	:	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 attention 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.

See toxicological information (Section 11)

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## **Section 5. Firefighting measures**

### Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $CO_2$ . None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal	:	May emit Hydrogen Chloride (HCl).
decomposition products		Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/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 specialized 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

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Large spill

place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Move containers from spill area. Prevent entry into sewers, water 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.

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## **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:

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	Permissil	ele Exposure Level 3 mg/m3 Form: Inhalable fraction
Titanium dioxide	PEL: Per OSHA P	EL 1989 (1989-03-01) missible Exposure Level 10 mg/m3 Form: Total dust EL (1993-06-30) missible Exposure Level 15 mg/m3 Form: Total dust
		REL (1994-06-01)
	TLV-TW	<b>TLV (1996-05-18)</b> A: Threshold Limit Value - Time weighted average PEL: ole Exposure Level 10 mg/m3
Appropriate engineering controls		neral ventilation should be sufficient to control worker to airborne contaminants.
Environmental exposure controls	Emission checked environn filters or	s from ventilation or work process equipment should be to ensure they comply with the requirements of tental protection legislation. In some cases, fume scrubbers, engineering modifications to the process equipment will be to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	products, of the wo remove p clothing	nds, forearms and face thoroughly after handling chemical before eating, smoking and using the lavatory and at the end rking period. Appropriate techniques should be used to otentially contaminated clothing. Wash contaminated before reusing. Ensure that eyewash stations and safety are close to the workstation location.
Eye/face protection	Safety ey when a ri liquid spi following	ewear complying with an approved standard should be used sk assessment indicates this is necessary to avoid exposure to ashes, mists, gases or dusts. If contact is possible, the g protection should be worn, unless the assessment indicates a gree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	standard	l-resistant, impervious gloves complying with an approved should be worn at all times when handling chemical products ssessment indicates this is necessary.
Body protection	Personal on the tas	protective equipment for the body should be selected based sk being performed and the risks involved and should be by a specialist before handling this product.
Other skin protection		ate footwear and any additional skin protection measures
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should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

:

#### **Appearance**

Physical state	:	solid [Pellets.]
Color	:	GREEN
Odor	:	Not available.
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	:	Not available.
Partition coefficient: n-	:	Not available.
octanol/water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	<b>Dynamic:</b> Not available.
		<b>Kinematic</b> Not available

#### Kinematic: Not available.

## Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see
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Possibility of hazardous reactions	:	Section 7). Under normal conditions of storage and use, hazardous reactions will
Conditions to avoid	:	not occur. Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Avoid contact with acetal homopolymers and acetyl homopolymers during processing.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition 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
Titanium dioxide				
Remarks - Oral:	No applicable toxi	city data		
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Carbon black	·			
	LD50 Oral	Rat	15,400 mg/kg	-
<b>Remarks - Inhalation:</b>	No applicable toxicity data			
<b>Remarks - Dermal:</b>	No applicable toxicity data			
Conclusion/Summary	• Mixtu	re Not fully tested		

Conclusion/Summary

Mixture.Not fully tested.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation		
Titanium dioxide	Skin - Mild	Human		72 hrs	-		
	irritant						
<b>Conclusion/Summary</b>							
Skin	: M	lixture.Not full	y tested.				
Eyes	: M	: Mixture.Not fully tested.					
Respiratory	: Mixture.Not fully tested.						
<u>Sensitization</u> Conclusion/Summary							
Skin	: M	lixture.Not full	y tested.				
Respiratory		lixture.Not full	•				
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<b>Mutagenicity</b>						
Conclusion/Summary	: M	ixture.Not fully	tested.			
<b>Carcinogenicity</b>						
Conclusion/Summary Classification	: M	ixture.Not fully	tested.			
Product/ingredient name	OSHA	IARC	NTP			
Titanium dioxide Carbon black		2B 2B				
<u>Reproductive toxicity</u>						
Conclusion/Summary	: M	ixture.Not fully	tested.			
<b>Teratogenicity</b>						
Conclusion/Summary	: M	ixture.Not fully	tested.			
Specific target organ toxicity Not available.	/ (single exposu	<u>re)</u>				
<u>Specific target organ toxicity (repeated exposure)</u> Not available.						
Aspiration hazard Not available.						
Information on likely routes exposure						
Potential acute health effects						
Eye contact Inhalation Skin contact Ingestion	N N	o known signifio o known signifio	cant effects or critical hazards. cant effects or critical hazards. cant effects or critical hazards. cant effects or critical hazards.			
Symptoms related to the phys	sical, chemical	and toxicologic	al characteristics			
Eye contact Inhalation		o specific data. o specific data.				

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Skin contact Ingestion	:	No specific data. No specific data.
Delayed and immediate effects as	well as	s chronic effects from short and long-term exposure
Short 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.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
<b>Developmental effects</b>	:	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	Species	Exposure
Titanium dioxide			
	Acute LC50 > 1,000 Mg/l Marine	Fish - Fish	96 h
	water		
Remarks - Acute - Fish:	Acute		
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	



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Remarks - Acute - Aquatic	Acute				
invertebrates.:					
	Acute LC5	0 6.5 Mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h	
Remarks - Acute - Aquatic	Acute				
invertebrates.:					
Remarks - Acute - Aquatic	No applica	ble toxicity data			
plants:		·			
Remarks - Chronic - Fish:	No applica	ble toxicity data			
Remarks - Chronic -		ble toxicity data			
Aquatic invertebrates.:	11	5			
Carbon black	1				
Remarks - Acute - Fish:	No applica	ble toxicity data			
		0 37.563 Mg/l Fresh	Aquatic invertebrates.	48 h	
	water		Daphnia		
Remarks - Acute - Aquatic	Acute				
invertebrates.:	110000	Acuit			
Remarks - Acute - Aquatic	No applica	ble toxicity data			
plants:	To appreable torierty data				
Remarks - Chronic - Fish:	No applicable toxicity data				
Remarks - Chronic -		No applicable toxicity data			
Aquatic invertebrates.:	rio appiloa	The upprease content unu			
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Remarks - Acute - Aquatic	Chemicals	are not readily available	as they are bound within the	e polymer matrix	
invertebrates.:					
Conclusion/Summary	:	Chemicals are not readi	ly available as they are bou	nd within the	
j		polymer matrix.	,		
		r J			
Persistence and degradability	y				
	-				
Conclusion/Summary	:	Chemicals are not readi polymer matrix.	ly available as they are bou	nd within the	
<b>Conclusion/Summary</b>	:		ly available as they are bou	nd within the	
		polymer matrix.			
<b><u>Bioaccumulative potential</u></b> Not available.					
Mobility in soil					
Soil/water partition coefficie (KOC)	ent :	Not available.			

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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.

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 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Consult mode specific transport rules
International Water IMO/IMDG	:	Consult mode specific transport rules

## 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: Not listed
	United States - TSCA 4(a) - ITC Priority list: Not listed
	United States - TSCA 4(a) - Proposed test rules: Not listed
	United States - TSCA 4(f) - Priority risk review: Not listed
	United States - TSCA 5(a)2 - Final significant new use rules: Not
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		listed United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Listed Cyclohexene, 4-ethenyl- Tert-Butanol
		United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Vinyl chloride monomer Phthalocyanine green
		United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Listed United States - EPA Clean air act (CAA) section 112 - Accidental 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) Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I Substances	:	Listed 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		
<b>DEA List I Chemicals (Precursor</b>	:	Not listed
Chemicals)		
DEA List II Chemicals (Essential	:	Not listed
Chemicals)		

### US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

### SARA 311/312

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Classification

Not applicable.

:

### **Composition/information on ingredients**

Name	%	Classification
Titanium dioxide	10 - 25	СН
Carbon black	0 - 0.3	СН

### <u>SARA 313</u>

Not applicable.

State regulations		
Massachusetts	:	None of the components are listed.
New York	:	None of the components are listed.
New Jersey	:	The following components are listed:
		Ethene, chloro-, homopolymer
		Titanium dioxide
		Phthalocyanine green
		Calcium carbonate
		Carbon black
Pennsylvania	:	The following components are listed:
·		Carbon black
		Titanium dioxide
		Phthalocyanine green
		Calcium carbonate
<u>California Prop. 65</u> WARNING: This product contains a c	hemi	cal known to the State of California to cause cancer.
United States inventory (TSCA 8b)	:	All components are listed or exempted.
Canada inventory	:	At least one component is not listed in DSL but all such components are listed in NDSL.
International regulations		
Inventory list		
Australia	:	Not determined.
Canada	:	At least one component is not listed in DSL but all such components

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:	At least one component is not listed in DSL but all such components
	are listed in NDSL.





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China :	All components are listed or exempted.
Europe inventory :	All components are listed or exempted.
Japan :	Not determined.
New Zealand :	All components are listed or exempted.
Philippines :	All components are listed or exempted.
Republic of Korea :	All components are listed or exempted.
Taiwan :	Not determined.
Turkey :	Not determined.
United States :	All components are listed or exempted.

## **Section 16. Other information**

Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

<b>History</b>		
Date of printing	:	05/17/2018
Date of issue/Date of revision	:	05/15/2018
Date of previous issue	:	11/26/2013
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 = International Convention for the Prevention of Pollution From
		Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine
		pollution)
		$\hat{U}N = United Nations$
References	:	Not available.



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### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.