

### Safire® 400

Prepared in accordance with GB/T 16483-2008, GB/T 24774-2009, GB 13690 – 2009, GB/T 17519–2013 GHS (Globally Harmonized System)

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### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Safire® 400	
Chemical Name	Melamine poly(zinc phosphate)	
Pure substance/mixture	Substance	
<u>Melamine poly(zinc phosphate)</u> CAS Number Weight-%	1271172-98-5 95.0 -100.0	
Recommended Use	Smoke suppressant Flame retardant No consumer use allowed.	
Uses advised against	None known	
Company:	J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300	
Emergency Telephone	CHEMTREC: 1 800 424 9300 or International +1 703 527 3887	
E-mail	hubermaterials@huber.com	
Internet	www.huberadvancedmaterials.com	

### Section 2: HAZARDS IDENTIFICATION

### **GHS Classification**

Physical Hazard	Not classified
Health Hazard	Not classified
Environmental Hazard	Hazardous to the aquatic environment - Chronic, category 2
Label Elements	
Symbols/Pictograms	

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Signal Word	None
Hazard Statement	H411 - Toxic to aquatic life with long lasting effects
Precautionary Statements	
Prevention	P273 - Avoid release to the environment
Response	P391 - Collect spillage
Spills and Leaks	Collect spillage
Storage	Store in a dry place Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
General Advice	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves
Additional Information:	According to the U.S. Environmental Protection Agency this substance presents a concern for hazard to the aquatic environment and reproductive toxicity.
Other	According to the U.S. Environmental Protection Agency this substance presents a concern for hazard to the aquatic environment and reproductive toxicity.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Pure substance/mixture

Substance

Chemical Name	CAS Number	China (IECSC)	China classification	TSCA: United States	EU REACH registration number	Weight-%
Melamine poly(zinc phosphate)	1271172-98-5	新常登C-21104	Hazardous to the aquatic environment - Chronic, category 1		01-2120116104-75 -xxxx	95.0 -100.0
					04-2120862008-56 -0000 (PPORD)	

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### Section 4: FIRST AID MEASURES

General Advice	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and hold eyelids apart and flush with a steady, gentle stream of water. Continue flushing for at least 15 minutes.
Skin Contact	IF ON SKIN: Wash with plenty of soap and water Remove contaminated clothing and shoes
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious) Drink plenty of water.
Notes to Physician	Treat symptomatically
Personal Protective Equipment For First Aid Responders	Wear suitable protective clothing IF exposed or concerned: Get medical advice/attention
Expected acute symptoms and delayed symptoms	May cause skin, eye, and respiratory tract irritation

### **Section 5: FIRE FIGHTING MEASURES**

Flammable Properties	None known
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: None known
Specific Hazards Arising from the Chemical	None known
Unusual fire & explosion hazards:	None
Protective measures:	Use protective equipment that is appropriate for surrounding materials.
Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus and protective suit

### Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

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Personal Precautions	Avoid dust formation. When exposed to high concentrations of airborne dust, wear a SCBA in accordance with national legislation
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust Small Spill: Vacuum or sweep material and place in a disposal container
Other Information:	Personal protection equipment (PPE) Refer to Section 8 Disposal - Refer to Section 13

### Section 7: HANDLING AND STORAGE

Handling	Avoid dust formation. Provide appropriate exhaust ventilation at places where dust
-	is formed. In case of insufficient ventilation, wear suitable respiratory equipment.
	Handle in accordance with good industrial hygiene and safety practice.

# StorageStore in tightly closed original container. Store in a well-ventilated place. Store<br/>away from incompatible materials (see Section 10 of the MSDS).

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Provide adequate ventilation as well as local exhaustion at critical locations
Engineering Measures	Ensure adequate ventilation, especially in confined areas Provide a good standard of controlled ventilation (10 to 15 air changes per hour)
Personal Protective Equipment Eye/Face Protection	Wear safety glasses with side shields (or goggles)
Skin and Body Protection	Wear suitable protective clothing
Hand Protection	Impervious gloves
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice Handle in accordance with good industrial hygiene and safety practice
Environmental Exposure Controls	Dispose of in accordance with local regulations Do not empty into drains or water courses

### **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

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Information on basic physical and chemical properties

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Appearance:	
Physical State	Solid
-	Powder
Color	White to light yellow
Odor	None
Odor Threshold	No information available
pH:	5.0 - 5.5 , < / =0.3% suspension - Water
Melting point / Freezing point	> 650 °C
Initial boiling point and boiling	Not applicable Solid
range	
Flash Point	Not applicable. Solid.
Evaporation Rate	Not applicable Solid
Flammability (solid, gas)	Not readily flammable Solid - (EU A10)
Upper flammability limit:	
Lower flammability limit:	
Vapor Pressure	No data available
Vapor Density	Not applicable Solid
Bulk Density	0.51 +/- 0.3 g/ml
Relative Density	2.4 +/- 0.3 g/cm <sup>3</sup> (20 °C)
Water Solubility	0.1 to 100 mg/L Slightly soluble
Solubility in other solvents	No data available
Partition coefficient	(25 °C)
Autoignition Temperature	> 1000 °C
Decomposition Temperature	>325 °C
Viscosity	Not applicable. Solid.
Explosive Properties	Not Explosible based on 1 m3 Chamber, ASTM E1226
Oxidizing Properties	Not oxidizing
Particle Size	D50 = 2.5 – 4.0 microns (80% below 10 microns)
VOC Content (%)	Not applicable

## Section 10: STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions to avoid:	Incompatible materials Strong oxidizers.
Incompatible materials	Strong acids
Hazardous decomposition products	None under normal processing
Hazardous Reactions	None under normal processing
Hazardous polymerization:	None under normal processing

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### Section 11: TOXICOLOGICAL INFORMATION

General Information	Users are advised to consider national Occupational Exposure Limits or other equivalent values.
Product Information	
Information on Likely Routes of	Exposure
Eyes	Avoid contact with eyes Dust contact with the eyes can lead to mechanical irritation
Skin	Avoid prolonged or repeated contact with skin
Inhalation	Avoid inhalation of the product
Ingestion	Ingestion is not a likely route of exposure
Aspiration hazard	Not applicable. Solid.

### 11.1. Information on toxicological effects

Serious eye damage/eye irritation	Based on available data, the classification criteria are not met
<b>Respiratory Sensitization</b>	Based on available data, the classification criteria are not met
Skin Corrosion/Irritation	Based on available data, the classification criteria are not met
Skin Sensitization	Based on available data, the classification criteria are not met
Mutagenicity	Based on available data, the classification criteria are not met.
Reproductive Toxicity	According to the U.S. Environmental Protection Agency this substance presents a concern for hazard to the aquatic environment and reproductive toxicity.
Carcinogenicity	Based on available data, the classification criteria are not met.
Other	According to the U.S. Environmental Protection Agency this substance presents a concern for hazard to the aquatic environment and reproductive toxicity.

## Section 12: ECOLOGICAL INFORMATION

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Persistence/Degradability: Bioaccumulative Potential	Not readily biodegradable. (OECD 301 B).
Partition coefficient Bioconcentration factor (BCF) Mobility in soil	Not available No data available. None.
Results of PBT and vPvB assessment	This substance does not meet the criteria for classification as PBT or vPvB.
Other Adverse Effects	None known

## Section 13: DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products	Dispose of in accordance with local regulations			
Contaminated Packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal.			

## Section 14: TRANSPORT INFORMATION

#### Mode of Transportation (Road, Water, Air, Rail)

DOT	UN3077, Environmentally hazardous substance, solid, n.o.s. (Melaminepoly(zinc phosphate)), 9, PG III, Marine Pollutant Not regulated in non-bulk packages (<119 gal) UN3077, Environmentally hazardous substance, solid, n.o.s. (Melaminepoly(zinc
	phosphate)), 9, PG III, Marine Pollutant
ΙΑΤΑ	UN3077, Environmentally hazardous substance, solid, n.o.s. (Melaminepoly(zinc phosphate)), 9, PG III, Marine Pollutant
IMDG/IMO	UN3077, Environmentally hazardous substance, solid, n.o.s. (Melaminepoly(zinc phosphate)), 9, PG III, Marine Pollutant
ICAO	UN3077, Environmentally hazardous substance, solid, n.o.s. (Melaminepoly(zinc phosphate)), 9, PG III, Marine Pollutant
14.1. UN number	UN3077
14.2. UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (Melaminepoly(zinc phosphate))

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14.3. Transport hazard class(es) 9

14.4. Packing group

14.5. Environmental hazards Toxic to aquatic life with long lasting effects

**14.6. Special precautions for** Do not handle until all safety precautions have been read and understood. **user** 

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code







## Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **Global Inventories**

Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippin es (PICCS)	Taiwan	TSCA: United States
Melamine poly(zinc	1271172-9 8-5	690-512-6	01-212011610 4-75-xxxx	Y	N	新常登 C-21104	N	N	N	Ν	N	Ν	PMN P-16-048

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X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

#### HUBER

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## Section 16: OTHER INFORMATION

Prepared by	Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com						
Reason for Revision	GB/T 16483-2008 GB/T 24774-2009 GB 13690 – 2009 GB/T 17519–2013						
GHS Classification							
Physical Hazard	Not classified						
Health Hazard	Not classified						
Environmental Hazard	Hazardous to the aquatic environment - Chronic, category 2						
Label Elements							
Symbols/Pictograms							
Signal Word	None						
Signal Word	None						
Hazard Statement	H411 - Toxic to aquatic life with long lasting effects						
Abbreviations and acronyms	IARC (International Agency for Research on Cancer) IATA (International Air Transport Association) IMDG (International Maritime Dangerous Goods) IUCLID (International Uniform Chemical Information Database) WHMIS (Workplace Hazardous Materials Information System) DOT (Department of Transportation) OSHA (Occupational Safety and Health Administration of the US Department of Labor) TWA (Time-Weighted Average) CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC 1272/2008))						

PPE (Personal Protection Equipment)

STEL (Short Term Exposure Limit) TLV® (Threshold Limit Value) DNEL (Derived No Effect Level)

TDG (Transport of Dangerous Goods) Canada

RQ (Reportable Quantity) (RQ/% in mixture)

NIOSH (National Institute for Occupational Safety and Health)

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)

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SVHC (Substances of Very High Concern)
BOD (Biochemical oxygen demand)
COD (Chemical oxygen demand)
ICAO (International Civil Aviation Organization)
IMDG (International Maritime Dangerous Goods)
SCBA (Self-Contained Breathing Apparatus) Positive Pressure
GHS (Globally Harmonized System)
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)
SARA (Superfund Amendments and Reauthorization Act of 1986)
TSCA (Toxic Substances Control Act)

**Disclaimer** 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

#### End of Safety Data Sheet