



Material Safety Data Sheet

GP[®] 558G88 Thermal Insulation Binder Resin

Section 1. Chemical Product and Company Identification				
Product / Trade Name Synonyms	GP [®] 558G88 Thermal Insulation Binder Resin RPPI 558G88			
Chemical Family	Phenol-Formaldehyd	le Resin		
Chemical Formula	Proprietary			
Manufacturer	Georgia-Pacific Che	Georgia-Pacific Chemicals LLC		
	2883 Miller Road Decatur, GA 30035 (770) 593-6874 (Non-Emergency)			
Emergency Phone (24 ho	urs): CHEMTREC	1-800-424-9300		
Section 2. Comp	osition and Infor	mation on Ingre	dients	
Hazardous Components	CAS #	% by Weight	ACGIH TLV TM	OSHA PEL
Formaldehyde	50-00-0	9.0 max.	CEIL: 0.3 ppm	TWA: 0.75 ppm STEL: 2 ppm
TWAs are 8 hour expo	TWAs are 8 hour exposures unless otherwise noted. STELs are 15 minute exposures unless otherwise noted.			
Section 3. Hazar	Section 3. Hazards Identification			
HMIS	Health Hazard2Fire Hazard0Reactivity0Personal ProtectionPersonal Protection			
Emergency Overview	Clear, dark amber to reddish brown liquid; Odor: formaldehyde Inhalation of vapors, or mist may cause respiratory irritation. Eye and skin irritation or injury may result from exposure to this product. May cause allergic skin reaction. May be harmful if swallowed.			
Potential Health Effect Eye contact	<u>ts</u> Contact with liquid	or mist can cause s	evere eye irritation or in	ijury. Vapors released from
	product can cause severe eye irritation. Symptoms may include redness, watering, itching or a burning sensation in the eyes.			

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Skin Contact	A prolonged single exposure can produce severe skin irritation or injury. Symptoms may include itching, scaling, cracking, reddening, or blistering at the site of contact.	
Inhalation	This product is not expected to be toxic by inhalation. However, vapors released from product may be irritating to the nose, throat, and lungs. Inhalation of concentrated vapors or mist may cause moderate to severe respiratory irritation. Symptoms may include coughing or shortness of breath, nausea, headaches, or dizziness.	
Ingestion	May be harmful if swallowed. However, in normal industrial use, ingestion is not considered a probable route of exposure.	
Chronic	This product contains formaldehyde which may cause cancer. Repeated or prolonged exposure to formaldehyde may cause skin sensitization, dermatitis, or other allergin reactions. The degree of sensitivity varies with individuals.	
	This product contains ingredients which may affect the following target organs: Respiratory system, eyes, skin, kidneys, liver	
	See Section 11 Toxicological Information for additional information.	
Section 4. First A	Aid Measures	
Eye contact	Immediately rinse with water. Remove contact lenses. Hold eyelids apart and flush eyes with water for at least 15 minutes. Get immediate medical attention.	
Skin Contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists. Launder contaminated clothing before reuse.	
Inhalation	Remove to fresh air. Rest in half-upright position. Get medical attention if necessary.	
Ingestion	If conscious, immediately rinse mouth and give large quantities of water. Get immediate medical attention. Never give anything by mouth to an unconscious person.	
Section 5. Fire ar	nd Explosion Data	
<u>Fire Hazards</u>	Not classified as flammable or combustible. Organic solids may burn, but only after removal of water and exposure to intense heat and flame.	
Flash Point	None to boiling. [Pensky-Martens Closed Cup]	
Flammable Limits (% by volume)	Not applicable.	
Extinguishing Media	Use water spray, dry chemical, or carbon dioxide.	
Fire Fighting Instructions	Use self contained breathing apparatus and protection for skin.	
Combustion Products	Irritating fumes and toxic gases.	
Special Hazards	 Unvented containers can build up pressure if exposed to heat (fire) and rupture violently. Water runoff can cause environmental damage. Dike and collect water used to fight fire. 	

Section 6. Accide	ental Release Measures
Spill and Leak Procedures	 Stop leak if you can do so without risk. Use PPE appropriate to spill size and risk of exposure. Confine spillage and absorb on sand, sawdust, or other available solids. Uncontaminated spilled material may be reused. Retain all contaminated water for removal and treatment. DO NOT flush to sewer.
Section 7. Handli	ng and Storage
Handling	 Avoid contact with eyes, skin, and clothing. Use proper protective equipment. (see <u>Section 8</u>) Avoid breathing mist or vapor. Use only in a well ventilated area. Unvented containers may develop pressure. Open with caution. Wash thoroughly after handling. Eyewash stations and safety showers should be easily accessible to areas where product is used.
Storage	 Do not store portable containers in direct sunlight. Keep containers closed when not in use. For maximum storage life, store at temperatures between 39 - 48°F (4 - 9°C). Protect from freezing. Store away from incompatible materials. (see <u>Section 10</u>)
Section 8. Expos	ure Controls / Personal Protection
Personal Protective	Eyes and Face: Face shield with safety glasses or chemical safety goggles.
Equipment (PPE)	Skin: Rubber or neoprene gloves. Wear additional protective clothing as appropriate to protect skin. Chemical resistant apron or other impervious clothing.
	Respiratory: If feasible engineering controls do not prevent overexposure, a full-face respirator with cartridges approved by NIOSH/MSHA for formaldehyde and dusts/mists may be used only when exposure levels are known to be within the unit's capability. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any situation where air purifying respirators may not provide adequate protection. Observe the OSHA respirator regulations cited in <u>29 CFR 1910.134</u> .
Engineering Controls	Use ventilation as necessary to keep exposure to airborne contaminants below the exposure limits.
Section 9. Physic	al and Chemical Properties
Physical appearance	Clear, dark amber to reddish brown liquid
Odor	formaldehyde
pH (as is)	approximately 9.3
Boiling Point	approximately 212°F (100°C)
Melting Point	not applicable
Specific Gravity (25°C)	approximately 1.20
Vapor Pressure (mm Hg)	not available
Vapor Density	not available
% Non-volatile (w/w)	approximately 48%

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Section 10. Stability and Reactivity Data		
Chemical Stability	This product is stable under the recommended storage conditions.	
Conditions to Avoid	Avoid storage in unagitated bulk tanks above the recommended storage temperature. (see <u>Section 7</u>)	
Incompatibility with Other Materials	Avoid contact or contamination with strong oxidizers, acids, or alkalis.	
Hazardous Decomposition Products	Not available.	
Hazardous Polymerization	Hazardous polymerization will not occur.	
Special Remarks	Elevated storage temperatures will shorten product storage life. Product may darken with time.	
Section 11. Toxic	ological Information	
Eye	A similar product was a severe eye irritant when tested as described in <u>29 CFR 1910.1200</u> ,	

Dermal	A similar product was a primary skin irritant when tested as described in <u>29 CFR 1910.1200</u> , Appendix A (OSHA HCS). A prolonged single exposure can produce severe skin irritation or injury. A similar product was not dermally toxic when tested as described in <u>29 CFR</u> <u>1910.1200</u> , Appendix A (OSHA HCS).

Appendix A (OSHA Hazard Communication Standard).

Inhalation	A similar product was not toxic by inhalation when tested as described in <u>29 CFR 1910.1200</u>
	, Appendix A (OSHA HCS).

- Oral Although this product may be harmful if swallowed, a similar product was not orally toxic when tested as described in <u>29 CFR 1910.1200</u>, Appendix A (OSHA HCS).
- Subchronic Effects Exposure to formaldehyde may cause temporary irritation to the nose and throat and may lead to respiratory disorders. However, in a thorough review of sensory/respiratory irritation studies of formaldehyde from the standpoint of occupational exposure, an expert panel has observed that exposure to concentrations of 0.3 ppm or lower failed to produce irritation. Individuals, in general, do not report irritation until concentrations reach 0.5 1 ppm. Respiratory disorders studies have concluded the threshold for long-term exposures causing chronic pulmonary effects is between 0.4 and 3 ppm and chronic obstructive pulmonary disease is 2 ppm. Additionally, persons with asthma responded no differently than healthy individuals at concentrations as high as 3 ppm. Pre-existing respiratory disorders may be aggravated by exposure.

Chronic Effects

Carcinogenicity	The International Agency for Research on Cancer (IARC) classifies formaldehyde as a carcinogen. This classification is based on the increased occurrence of a rare cancer of the nasopharyngeal cavity. IARC determined that there was insufficient evidence of other cancers including cancer of the oral cavity, oro- and hypopharynx, larynx, lung, sinonasal cavity, pancreas, brain and leukemia. The National Toxicology Program (NTP) includes formaldehyde in its Annual Report on Carcinogens. OSHA regulates formaldehyde as a potential carcinogen for exposures at or exceeding 0.5 ppm.

Target OrgansSee Section 3.

Section 12. Ecological Information Ecotoxicity This product is slowly biodegradable under aerobic and anaerobic conditions. Section 13. Disposal Considerations Waste Disposal Dispose of absorbed material in accordance with all federal, state, and local regulations. Dispose of contaminated water in a contained waste treatment system. RCRA The requirements of the federal hazardous waste regulations do not apply unless the waste fails to pass any of EPA's four tests for determining hazardous wastes. Note: If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal. Section 14. Transportation Information DOT Regulated as indicated below.

Shipping Description	Rail Cars, Tank Trucks, Tote Bins	Non-bulk Shipments	
Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s.	Non-regulated	
Hazard Class	9	Not applicable.	
Identification Number	UN 3082	Not applicable.	
Packing Group	Ш	Not applicable.	
Reportable Quantities	RQ (Formaldehyde)	Not applicable.	
Placards / Labels	Placards: Class 9	Labels: Not applicable.	
Special Provisions for Transport	None.	For air shipments, use "Aviation regulated liquid n.o.s. UN 3334".	

Section 15. Regulatory Information

The following regulations may have reporting requirements for the components listed. **Federal Regulations** See "Key to Abbreviations and Acronyms" under Section 16 for definitions. A spill or release of this material may trigger the emergency release reporting requirements **CERCLA / SARA** under CERCLA (40 CFR Part 300) and/or SARA Title III (40 CFR Part 355). State or local **Emergency Reporting** reporting requirements may differ from federal requirements. Consult counsel for further guidance on your responsibilities under these laws. Formaldehyde, Phenol SARA Title III This product is known to contain the following chemicals which are listed in 40 CFR 372.65 as toxic chemicals requiring notification. This information must be included in all MSDS's Section 313 that are copied and distributed for this product. **Supplier Notification** Component % by Weight CAS# 50-00-0 Formaldehyde 9.0 max.

CWA Section 307

Phenol

The following chemicals are listed under Section 307 as toxic pollutants not eligible for

waiver from best available technology economically achievable (BAT) effluent limitations.

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CWA Section 311	The following chemicals are listed under Section 311 as hazardous substances requiring the submission of a National Pollutant Discharge Elimination System (NPDES) permit application to EPA.		
	Formaldehyde, Phenol		
TSCA	All components of this product are listed on the Toxic Substances Control Act Inventory or are excluded from listing requirements.		
Other Regulations	See the OSHA Formaldehyde Standard <u>29 CFR 1910.1048</u> for worker training, workplace monitoring, and medical surveillance requirements.		
	<u>California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):</u> This product contains the following substance(s) known to the State of California to cause cancer: Formaldehyde		
	<u>Canada:</u> All components of this product are listed on the Canadian Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.		
Section 16. Othe	er Information		
FDA Status	Not applicable.		
Other Special Considerations	CAUTION: Empty containers may contain product residue. Continue to observe recommended safety precautions when handling empty containers. Follow standard industrial hygiene practices. Chemical exposure should always be kept to a minimum.		
Supersedes Date	7-30-2007		
Section(s) Changed Since Last Revision	9. Physical and Chemical Properties 15. Regulatory Information		
Key to Abbreviations and Acronyms	ACGIH American Conference of Governmental Industrial Hygienists ANSI American National Standards Institute CEIL Ceiling value CERCLA Comprehensive Environmental Response, Compensation, and Liability Act CFR Code of Federal Regulations CWA Clean Water Act DOT Department of Transportation FDA Food and Drug Administration HCS Hazard Communication Standard HMIS Hazardous Materials Information System IARC International Agency for Research on Cancer LCso The concentration of a material expected to kill 50% of an animal test group. LLco Lowest lethal concentration of a substance LDso The dose of a material expected to kill 50% of an animal test group. LLco Lowest lethal dose of a material MSHA Mine Safety and Health Administration N.O.S. Not Otherwise Specified NFPA National Institute for Occupational Safety and Health NTP National Institute for Occupational Safety and Health NTP National Toxicology Program OSHA Occupational Safety and Health Administration PEL Pe		

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IMPORTANT:

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