



Material Safety Data Sheet

GP® 159C45 RESI-STRAN® Oriented Strand Board Resin

1. Product and company identification

Product name : GP® 159C45 RESI-STRAN® Oriented Strand Board Resin
Synonym : RPPB 159C45
Manufacturer : Georgia-Pacific Chemicals LLC
 133 Peachtree Street, NE
 Atlanta, GA 30303
 (770) 593-6874 (Non-Emergency)
In case of emergency : Call CHEMTREC (CCN9376) at 1-800-424-9300 or +703-527-3887 (Int'l) 24hrs

2. Hazards identification

Emergency overview

Physical state : Liquid
Color : red to brown [Dark]
Odor : phenolic [Slight]
Signal word : CAUTION!
Hazard statements : MAY CAUSE EYE IRRITATION.
Precautionary measures : Avoid contact with eyes. Wash thoroughly after handling.
OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential acute health effects

Eyes : Moderately irritating to eyes.
Eyes Adverse symptoms may include the following: irritation watering redness

Medical conditions aggravated by over-exposure : Repeated or prolonged exposure to formaldehyde may cause skin sensitization, dermatitis or other allergic reactions. The degree of sensitivity varies with individuals.

Potential chronic health effects

See toxicological information (Section 11)

3. Composition/information on ingredients

Formaldehyde	50-00-0	<0.1%
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Canada

Name	CAS number	%
Methanol	67-56-1	<0.6

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.

4. First aid measures

Eye contact : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

4. First aid measures

- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

- Flammability** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Flash point** : [Product does not sustain combustion.]
- Extinguishing media**
- Suitable** : In case of fire, use water, dry chemical powder or carbon dioxide.
- Not suitable** : None known.
- Special exposure hazards** : 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.
- Hazardous thermal decomposition products** : No specific data.
- 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.
- Special remarks on fire hazards** : Nonflammable, but may burn on prolonged exposure to flame or high temperature.

6. Accidental release measures

- Personal precautions** : 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- 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).
- Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Handling** : 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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

7. Handling and storage

Storage : Do not store above the following temperature: 20°C (68°F). 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.

8. Exposure controls/personal protection

United States

Formaldehyde.

OSHA PEL (United States, 11/2006).

TWA: 0.75 ppm 8 hour (s).

STEL: 2 ppm 15 minute(s).

ACGIH TLV (United States, 2/2010). Skin Sensitizer.

c: 0.3 ppm

c: 0.37 mg/m³

Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Methanol	US ACGIH 2/2010	200	262	-	250	328	-	-	-	-	[1]
	AB 4/2009	200	262	-	250	328	-	-	-	-	[1]
	BC 10/2009	200	-	-	250	-	-	-	-	-	[1]
	ON 7/2010	200	262	-	250	328	-	-	-	-	[1]
	QC 6/2008	200	262	-	250	328	-	-	-	-	[1]

Absorbed through skin.

Mexico

Occupational exposure limits

No exposure limit value known.

Consult local authorities for additional exposure information.

Recommended monitoring procedures : OSHA regulates formaldehyde exposures at or exceeding 0.5 ppm as a potential cancer hazard and requires monitoring for exposures at or exceeding 0.5 ppm over an eight hour time-weighted average.

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: Face shield with safety glasses or chemical safety goggles.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Rubber gloves. Neoprene gloves.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

8. Exposure controls/personal protection

- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

- Physical state** : Liquid
- Flash point** : [Product does not sustain combustion.]
- Color** : red to brown [Dark]
- Odor** : phenolic [Slight]
- pH** : 10.8
- Boiling/condensation point** : 100 °C (212 °F)
- Relative density** : 1.24
- Volatility** : 45% (w/w)
- Solubility** : Easily soluble in the following materials: cold water and hot water.

10. Stability and reactivity

- Chemical stability** : Stable under recommended storage and handling conditions (see section 7).
- Conditions to avoid** : Unagitated bulk storage above recommended storage temperature. (see Section 7)
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information

Acute toxicity

- Conclusion/Summary** : This product is not toxic.

Chronic toxicity

- Conclusion/Summary** : Not available.

Irritation/Corrosion

Conclusion/Summary

- Eyes** : This product is an eye irritant.
- Skin** : This product is not a skin irritant.
- Respiratory** : Exposure to formaldehyde may cause temporary irritation to the nose and throat and may lead to respiratory disorders. Pre-existing respiratory disorders may also be aggravated by exposure. Studies have reported that persons with asthma responded no differently than healthy individuals at concentrations as high as 3 ppm.

Sensitizer

- Conclusion/Summary** : Repeated or prolonged exposure to formaldehyde may cause skin sensitization, dermatitis or other allergic reactions. The degree of sensitivity varies with individuals.

Carcinogenicity

- Conclusion/Summary** : The International Agency for Research on Cancer (IARC) and The National Toxicology Program (NTP) classify formaldehyde as a carcinogen due to cancers of the upper respiratory system and leukemia. OSHA regulates formaldehyde as a potential carcinogen for exposures at or exceeding 0.5 ppm.

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Conclusion/Summary : Not available.

Persistence/degradability

Conclusion/Summary : Not available.

13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Reportable quantity	Placard/Label	Additional information
DOT Classification BULK	Not regulated.	-	-	-	-		-
DOT Classification NON-BULK	Not regulated.	-	-	-	-	-	-
TDG Classification	Not regulated.	-	-	-	-		-
Mexico Classification	Not regulated.	-	-	-	-		-

PG* : Packing group

15. Regulatory information**United States**

HCS Classification : Irritating material

United States inventory (TSCA 8b) : All components are listed or exempted.

U.S. Federal regulations : **SARA 302/304/311/312 extremely hazardous substances**: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
Clean Water Act (CWA) 307: Phenol
Clean Water Act (CWA) 311: Sodium Hydroxide; Phenol; Formaldehyde

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

15. Regulatory information

California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive
<input checked="" type="checkbox"/> Methanol	No.	Yes.
Formaldehyde	Yes.	No.

Canada

WHMIS (Canada) : Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists

Canada inventory : All components are listed or exempted.

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. Other information

Label requirements : MAY CAUSE EYE IRRITATION.

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

Health	2
Flammability	0
Physical hazards	0

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) :



Other special considerations : In compliance with good industrial hygiene practice, exposure to any chemical should be kept to a minimum.

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New format

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Prepared by : Georgia-Pacific Chemicals LLC
Product Information Services Group

Indicates information that has changed from previously issued version.

Notice to reader

IMPORTANT:

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