

MATERIAL SAFETY DATA SHEET

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ATTN: PLANT MGR/SAFETY DIR

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This MSDS complies with 29 CFR 1910.1200 (The Hazard Communication Standard)

SECTION I - Product Identification

Product Name: CORVE8295 VINYL ESTER
 UN/NA Number: Not Regulated
 General or Generic ID: Unsaturated Polyester Resin
 Hazard Classification: Slightly Combustible

SECTION II - Hazardous Components

Ingredient	Cas No.	Percent	OSHA-PEL	ACGIH-TLV NOTE
Unsaturated Polyester Base Resin	See Index	50-65	None-Estb.	None-Est.
Proprietary Ingredient A	XXXXXXXXXX	05-40	None-Estb.	None-Est
Proprietary Ingredient B	XXXXXXXXXX	05-40	None-Estb.	None-Est

SECTION III - Physical Data

Property	Measurement
Initial Boiling Point	For Proprietary Ingredient A 314.00 DEG F @ 4.0 MMHG For Proprietary Ingredient B >250 DEG C
Vapor Pressure	For Proprietary Ingredient A 2.4 MMHG (300 DEG F) For Proprietary Ingredient B not available
Vapor Density	Air = 1 For Proprietary Ingredient B N/DA >1 at 68 DEG F 20 DEG C
Specific Gravity	1.10-1.13 @ 77.00 DEG F (25.00 DEG C)
Evaporation Rate	Slower than Ether
Odor	Ester-like

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SECTION IV - Fire and Explosion Data

Flash Point 330 DEG F for Proprietary Ingredient A
Flash Point 261 DEG F for Proprietary Ingredient B

Flammable (Lowest Value of Proprietary Ingredient A) Lower - N/DA
(Upper Value of Proprietary Ingredient A) Upper - N/DA

(Lowest Value of Proprietary Ingredient B) Lower - N/DA
(Upper Value of Proprietary Ingredient B) Upper - N/DA

Extinguishing Media: Regular foam or carbon dioxide or dry chemical. Use
waterspray/water fog for cooling.

Hazardous Decomposition Products: May form toxic materials:, carbon dioxide
and carbon monoxide, various hydrocarbons.

Special Firefighting Procedures: Do not enter fire area without proper
protection. See "Decomposition products possible." Fight fire from safe
distance/protected location. Heat may build pressure/rupture closed
containers, spreading fire, increasing risk of burns/injuries. Do not
use solid water stream/may spread fire. Use water spray/fog for cooling.
Avoid frothing/steam explosion. Notify authorities if liquid enters
sewers/public waters.

Unusual Fire & Explosion Hazards: Heat from fire can generate flammable vapor.
When mixed with air and exposed to ignition source, vapors can burn in
open or explode if confined. Vapors may be heavier than air. May travel
long distances along ground before igniting/flashing back to vapor source.
Fine sprays/mists may be combustible at temperatures below normal flash
point. Never use welding or cutting torch on or near drum (even empty)
because product (even just residue) can ignite explosively.

SECTION V - Health Data

Permissible Exposure Level: Not established for product. See Section II.

Effects of Overexposure: For Proprietary Ingredient A

Eyes - May cause moderate irritation, redness, tearing, blurred vision
including swelling and/or a burning sensation.

Skin - May cause delayed skin irritation and blistering.

Breathing - Excessive inhalation of vapors can cause nasal irritation,
dizziness, weakness, fatigue, nausea, headache, possible unconsciousness,
and even asphyxiation.

Swallowing - Can cause gastrointestinal irritation, nausea, vomiting, diarrhea.
Aspiration of material into the lungs can cause chemical pneumonitis.

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First Aid:

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- If on Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Flush with lukewarm water for 15 minutes. Seek medical attention if ill effect or irritation develops. Launder contaminated clothing before re-use.
- If in Eyes: Flush with large amount of water, lifting upper and lower lids occasionally. Get medical attention.
- If Swallowed: Do not induce vomiting. Give 1 part of lukewarm water if victim is completely conscious and alert. Keep person warm, quiet and get medical attention. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.
- If Breathed: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention.

SECTION VI - Reactivity Data

Hazardous Polymerization: Can occur.

Stability: Stable.

Incompatibility: Avoid contact with: strong alkalis, strong mineral acids and oxidizing agents.

Conditions to Avoid: Exposure to excessive heat or open flame; storage in open containers ; prolonged storage (6 months), storage above 38 DEG C (100 DEG F). Contamination with oxidizing agents.

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, Low Molecular Weight Hydrocarbons, Organic Acids or Acrid fumes of Allylic compounds.

SECTION VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled:

Spill: Evacuate/limit access. Equip responders with proper protection. Stop release. Prevent flow to sewers/public waters. Notify fire/environmental authorities. Restrict water use for cleanup. Impound/recover large land spill. Soak up small spill with inert solids. Use suitable disposal containers. On water, material insoluble/may float or sink. Contain. minimize dispersion/collect. Disperse residue to reduce aquatic harm. Report per regulatory requirements.

Waste Disposal Method:

Comply with federal/state/local regulations for solid waste disposal. Recover waste liquids for beneficial recycle/reuse. Incinerate spent dry solids used as spill control absorbents and liquid residues. Avoid Flameouts. Assure emissions comply with applicable regulations.

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SECTION VIII - Protective Equipment to be Used

Respiratory Protection: No occupational exposure standards have been developed for this material. Where exposure through inhalation may occur from use, NIOSH/MSHA approved respiratory protection equipment is recommended.

Protective Gloves: Wear resistant gloves such as: neoprene, nitrile rubber.

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses (consult your safety equipment supplier). Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hygienic and Work Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.

SECTION IX - Special Precautions or Other Comments

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapors, liquid, and/or solid), all hazard precautions given in this data sheet must be observed.

Prolonged exposure to Proprietary Ingredient A may damage the lungs and liver.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with Interplastic or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

SECTION X - Supplement

Health Hazards - Sections II and IV

Chronic Health Effects:

Report from a two year gavage study (chronic) conducted with rats showed a significantly increased incidence of mononuclear cell leukemia in female rats, and chronic liver disease in both sexes. The association between the increase is considered to be equivocal (uncertain). In the final report on a similar study with mice, it was concluded that Proprietary Ingredient A is not carcinogenic. However, chronic

hyperplasia of the stomach was common (toxicology and carcinogenesis studies of Proprietary Ingredient A in F344/N rats gavage studies, NTP technical report series no. 284 and carcinogenesis bioassay of Proprietary Ingredient A in B6C3F1 mice (gavage study) NTP no. 242.)

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SECTION XI - Supplier Notification

This product contains toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372. Please refer to Section II - Hazardous Components for the specific product and concentration.

BASE RESIN CAS INDEX

The base resins indicated under Section II are identified by one or more of the following CAS numbers:

113060-15-4	28572-30-7	58182-50-6	67859-89-6
135108-89-3	28679-80-3	61224-63-3	49624-93-3
141224-31-9	29011-83-4	62569-28-2	68511-26-2
14807-96-6	29350-58-1	64386-66-9	79-4-1
149717-53-3	29403-69-8	67380-21-6	
155122-62-6	29403-69-8	67386-67-0	
21645-51-2	30110-00-0	67599-39-7	
25037-66-5	30946-90-8	67712-08-7	
25101-03-5	31260-98-7	67845-68-5	
25215-72-9	31472-46-5	67939-08-6	
25464-21-5	32505-78-5	67939-40-6	
25609-89-6	32677-47-7	68002-44-8	
25749-46-6	32762-75-7	68140-84-1	
25749-49-9	36346-15-3	68140-88-5	
25987-82-0	36425-15-7	68171-28-8	
26098-37-3	36425-16-8	68238-98-2	
26123-45-5	37339-47-2	68299-40-1	
26265-08-7	37347-86-7	68492-68-2	
26301-26-8	37999-57-8	68511-26-2	
26588-55-6	42133-45-9	68585-94-4	
26795-76-6	464920-01-2	68647-07-4	
27342-37-6	52453-94-8	72259-64-4	
27837-75-8	54228-09-0	81192-92-9	
27863-48-6	56083-98-8	9003-20-7	
28472-89-1	56083-99-9	9065-68-3	
28516-30-5	57863-48-6	37625-93-7	