



Safety Data Sheet

Updated May 2021

1. Identification of the Material and Supplier

Product Name: Vipel F010-M-30 VE Resin 220kg
 Product Code: 304-55031
 UN Number: 1866
 DG Class: 3
 Shipping Name: Resin Solution
 Packaging Group: III
 Hazchem Code: *3Y
 Intended Use: Laminating GRP, Industrial & Professional Use
 Company: H S Composites Ltd
 Address: 63 Hunua Road, Papakura, Auckland 2110
 Telephone: +64 (09) 295 2200
 Email: sales@hscomposites.co.nz
 Website: www.hscomposites.co.nz

2. Hazard Identification

Regulatory Information:

Additives, Process Chemicals and Raw Materials (Flammable, Carcinogenic) Group Standard 2020, October 2020

HSNO Approval Number: HSR002502
 Hazard Class: 3

HAZARDOUS CLASSIFICATIONS

Flammable Liquid	Category 3
Acutely Toxic (Oral)	Category 4
Acutely Toxic (Inhalation Vapours)	Category 4
Acutely Toxic (Inhalation Dust/Mist)	Category 4
Skin Corrosion/Irritant	Category 2
Serious Eye Damage/Irritation	Category 2
Skin Sensitisation	Category 1
Carcinogenicity	Category 2
Aspiration Toxicity	Category 1
Specific Target Organ Toxicity (Repeated Exposure)	Category 1

Specific Target Organ Toxicity (Single Exposure)	Category 3
Acute Aquatic Toxicity	Category 2
Chronic Aquatic Toxicity	Category 3

Signal Word: **DANGER**

Pictograms:



Flammable



Irritant



Harmful



Aquatic Hazard

HEALTH HAZARDS

H226	Flammable Liquid and Vapour
H304	May be fatal if swallowed and enters airways
H315	Causes Skin Irritation
H317	May cause allergic skin reaction
H319	Causes Serious eye irritation
H332	Harmful if inhaled
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure

ENVIRONMENT HAZARDS

H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

PREVENTION

P102	Keep out of reach of children
P103	Read label before use
P201	Obtain instruction before using this product, read Safety Data Sheet/Label
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from ignition sources such as heat/sparks/open flame/hot surface. No smoking.
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion proof equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe vapours
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray
P264	Wash hands and exposed skin thoroughly after handling

P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or well-ventilated areas
P273	Avoid release into the environment
P280	Wear protective clothing, gloves and eye protection
P281	Use personal protective equipment as required

RESPONSE

P101	If medical advice is needed, have product container or label at hand
P301 + P310	If swallowed call POISON CENTRE or DOCTOR if you feel unwell
P301+P330	IF SWALLOWED: Rinse out mouth, do not swallow water, DO NOT induce vomiting.
P314	Get medical advice/attention if you feel unwell
P330 + P331	Rinse out mouth, DO NOT induce vomiting
P302 + P352	If on skin, wash with plenty of soap and water
P303 + P351 + P535	If on skin or hair, remove/take off immediately all contaminated clothing, rinse skin with water/shower
P332 + P313	If skin irritation occurs, get medical advice
P362	Take off contaminated clothing and wash before reuse
P304 + P340	If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing.
P312	Call POISON CENTRE or DOCTOR if you feel unwell
P305 + P351 + P338	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so, continue to rinse
P337 + P313	If eye irritation persists seek medical advice
P308 + P313	If exposed or concerned seek medical advice
P314	Get medical advice if you feel unwell
P370 + P378	In case of fire use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish
P391	Collect any spillage

STORAGE

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P235	Keep cool.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P405	Store in a locked area

DISPOSAL

P501	Dispose of product and packaging in accordance with local and Governmental regulations
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Hazard Classification: 3

Packing Group: III

Hazchem Code: *3Y

3. Composition / Information on Ingredients

Component	Cas No	Proportion
Styrene	100-42-5	60-100%
Alpha Methyl Styrene	98-83-9	1-<2.5%
Cobalt Octoate	136-52-7	<0.25%
Potassium 2-ethyl hexanoate	3164-85-0	<0.25%
Non-hazardous Ingredients		Balance

4. First Aid Measures

**For advice, contact the National Poisons Centre (24hr Service)
(Phone New Zealand: 0800 764 766) or a doctor.**

If seeking medical attention show this Safety Data Sheet to the Doctor in attendance.

Inhalation: Move the person to fresh air immediately, sit in a comfortable position until breathing returns to normal. Begin artificial respiration if breathing has stopped and get immediate medical assistance. Use a barrier to give mouth to mouth resuscitation. If breathing is difficult only trained personnel should administer oxygen. Get immediate medical attention. Keep warm and at rest until recovered. Get medical advice if person feels unwell or is concerned.

Skin Contact: If skin contact occurs, remove contaminated clothing and wash skin with soap and water. The material may cause an allergic skin reaction, if skin irritation develops or persists, get medical advice. Launder contaminated clothing before re-use.

Eye Contact: Rinse immediately with plenty of water also under the eyelids keeping them apart and flush the eye continuously with running water for at least 15 minutes. Remove contact lenses after 5 minutes if present, and easy to do. Continue flushing. Get immediate medical advice/attention if irritation persists.

Ingestion If swallowed, get immediate medical attention. DO NOT induce vomiting. Rinse mouth with water. Move out to fresh air keep at rest in a position that is comfortable for breathing. Begin artificial respiration if the victim is not breathing. Use a barrier to give mouth to mouth resuscitation. If material has been swallowed and the person is conscious give small quantities of water to drink. Any sign of vomiting, then stop giving any fluids, should vomiting occur keep head below waist to ensure vomit does not enter the lungs. If unconscious place in the recovery position, ensure to maintain an open airway. Give nothing by mouth to an unconscious person.

Protection for First-Aider: Ensure that those giving assistance and medical personnel are aware of the materials involved, take precautions to protect yourself or any other personnel from contamination. Use PPE.

First Aid facilities: Provide eye baths and safety showers close to areas where splashing may occur.

Note to Doctor/Physician: Treat symptomatically. If a corrosive material, because of the danger of aspiration the use of gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances and approved by trained medical personnel.

5. Fire Fighting Measures

Flammable liquids and vapours: Remove all persons from the immediate area, shut off product that may 'fuel' a fire if safe to do so. Allow only trained personnel to attend a fire in progress, provide fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to sewers, drains and waterways.

Suitable extinguishing media: Water fog, foam, dry chemical or carbon dioxide (CO₂).

DO NOT use straight jet streams of water.

Unsuitable Extinguishing Media: Caution: Use of water spray when fighting fire may be inefficient.

Hazards from combustion: Keep product and empty containers away from heat and sources of ignition. Run off from the fire area may create fire or an explosion hazard. In the event of a fire Keep surrounding containers cool by spraying with water. When burning the product may give off Smoke, fumes, metal oxides, carbon dioxide and carbon monoxide and incomplete combustion products.

Precautions for fire fighters and special protective equipment: Full protective clothing and self-contained breathing apparatus with a full-face piece. Move other containers from the area if safe to do so without risk to yourself or others.

Hazchem Code: *3Y

Styrene will polymerise at elevated temperatures. If this occurs in a closed container there is a serious risk of violent rupture.

SPECIAL FIREFIGHTING PROCEDURES.

Fight like a chemical fire. Water used in fire-fighting should not be allowed to enter sewers, drains or waterways or contaminate soil.

6. Accidental Release Measures

Steps to be taken if the material is released or spilled.

Evacuate personnel to safe areas.

Wear the correct Personal Protection Equipment. See section 8 for requirements.

Stop leakage if safe to do so, do not put yourself in a position of harm or danger.

Eliminate all sources of ignition (flames, hot surfaces, electrical, static or frictional sparks). Ventilate the surrounding area. Do not walk in spillage.

Contain the area of spillage, do not touch damaged containers unless wearing the correct PPE. If safe to do so material can be collected and placed in a container for disposal. Re-use or recycle if possible. Absorb remainder on the floor with sand, vermiculite or other non-combustible material. Place collected material in a closed container that is suitable for that product and label for disposal.

Prevent contamination of storm-water drains and waterways.

Waste disposal method. Through local licensed waste management/disposal agent.

Contaminated absorbent material to be disposed of in accordance with appropriate local or governmental regulations.

Correctly label all material containers to be disposed of and supply copy of SDS for that product.

Liquid material mixed with the appropriate hardener should be allowed to gel and cool before disposal as solid waste in accordance with appropriate local or national regulations or through a registered waste disposal plant.

Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and Storage

Wear correct PPE equipment when using material. Avoid inhalation of vapour and contact with skin, eyes and clothing. Use only with adequate ventilation or face mask with the correct filter.

Keep away from children.

If in contact with skin, wash with soapy water, launder contaminated clothing before re-use.

Wash hands/arms thoroughly after handling the product, before breaks and before eating.

This product is flammable. Isolate from all potential sources of ignition including static discharge, do not open near open flame, sources of heat or ignition, NO SMOKING.

Store in a locked and bunded area or approved flammable goods store away from direct heat (ideally below 25°C to prevent spoilage) and well ventilated. Keep containers tightly closed when not in use. Open drums slowly in case of internal pressure.

Open drums slowly in case of internal pressure.

Store separate from oxidising materials, peroxides and metal salts.

8. Exposure Controls / Personal Protective Equipment (PPE)

Workplace Exposure Limit: Worksafe 2020

Component	Cas No	TWA
Styrene	100-42-5	20ppm
Alpha Methyl Styrene	98-83-9	0.5ppm

Use general dilution or local exhaust ventilation to maintain vapour concentration below WES level in the work place. If concentrations exceed exposure limit use organic vapour canister mask or approved air-line mask. Face masks should be professionally fitted.

Skin Protection: Wear overalls or other work clothing providing arm and leg cover. Use protective gloves (PVC, Latex or Nitrile), replace gloves immediately if torn or damaged. Wash hands before breaks and eating, wash hands when the work day is completed.

Eye Protection: Safety goggles or face shield.

Additional Advice: Do not eat, drink or smoke when using this product.



9. Physical / Chemical Properties

Physical Description & colour: Opaque amber liquid

Odour: Styrene

Boiling Point: 145°C

Flammable Liquid Flash Point: 31°C

Evaporation Rate: 0.49

Flammable Limits:

LEL (lower explosive limit)	1.1%
UEL (upper explosive limit)	6.1%
Specific Gravity:	1.05
Water Miscibility:	Insoluble
Marine Pollutant:	Yes

10. Stability and Reactivity

Stability:	Under normal working conditions, good ventilation and providing the correct personal protection is worn then there should be no adverse effects.
Conditions to avoid:	Exposure to sunlight, heat, sparks, open flames, contamination and prolonged storage above 25°C.
Materials to avoid:	Strong acids, peroxides, other oxidising agents, transition metals e.g., copper and zinc, their alloys and galvanised items.
Hazardous Polymerisation:	May occur as result of inhibitor depletion, high temperature or contamination, sealed containers may explode when heated, if burned, these products will evolve black, acrid smoke along with carbon monoxide, carbon dioxide and various organic compounds.

11. Toxicological Information

When used under properly controlled conditions with adequate ventilation, within workplace exposure limits and with adequate protective equipment, no adverse health effects are to be expected.

Inhalation of Vapour: Acutely Toxic when inhaled. When inhaled adverse symptoms may include respiratory tract irritation, coughing, drowsiness or dizziness. If ventilation is poor then wear face mask with organic vapour canister.

Eye Contact: May cause serious eye damage. Adverse symptoms may include pain or irritation, watering and/or redness. If persistent seek medical advice.

Skin Contact: Acutely Toxic to the skin. Adverse symptoms may include irritation, redness of the skin, allergic reactions to susceptible persons, repeated exposure may cause skin dryness, cracking or dermatitis.

If Swallowed: May cause gastric upset/irritation, nausea, vomiting and diarrhoea. May cause lung damage if swallowed. Aspiration may cause pulmonary oedema and/or pneumonitis.

Chronic effects of overexposure:

Mild dermatitis may result from prolonged or repeated skin contact. Styrene can be absorbed through the skin. Seek medical advice

Excessive exposure to the liquid material or vapour may affect the central nervous system, the liver, kidneys and respiratory system.

12. Ecological Information

Prevent these products from entering storm-water drains sewers or waterways.

Styrene is the major contaminant hazard in these formulations and it will undergo slow (but near complete) biodegradation in contact with soil. Styrene vapour degrades rapidly in the atmosphere.

Styrene floats on water and will vaporise and biodegrade.

Toxic to aquatic life with long lasting effects.

H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects
H432	Toxic to terrestrial vertebrates

13. Disposal Considerations

Waste Disposal:

Recover/reuse or recycle if possible.

Small quantities of these products may be mixed with appropriate amounts of polymerization initiators (catalyst) and allowed to cool and solidify before disposal as solid waste.

This material and its container must be disposed of as hazardous waste.

Any disposal must be labelled (See section 14) as such and comply with applicable local, regional and national regulations, dispose of through a licensed waste disposal company. Ensure that these materials do not enter drains, sewers or waterways. Ensure that empty packaging is managed in accordance with Dangerous Goods and HSNO regulations.

P501	Dispose of product and packaging in accordance with local regulations
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14. Transport Information

Proper Shipping Name:	Resin Solution
Hazchem Class:	3
UN Number:	1866
Packing Group:	III
Hazchem Code:	*3Y
Transport Label:	Class 3 Flammable Liquid
Tunnel Restriction:	D
IERG Code:	14
EMS Code:	F-E, S-E
Environmental Hazard:	Yes – Marine Pollutant

15. Regulatory Information

EPA New Zealand HSNO approval code HSR002502

NZ Inventory of Chemicals – Complies

SDS To be available within 10 minutes when required.

A current Location Compliance Certificate is required for this product when storing quantities over the following quantity.

Hazard Classification HSNO number	Product	Quantity more than
HSR002502	Resin Class 3.1C	500l

Websites that will be of assistance regarding Hazardous Substances:

<https://www.hazardoussubstances.govt.nz/calculator>

<http://www.hazardoussubstances.govt.nz/>

<https://www.worksafe.govt.nz/topic-and-industry/hazardous-substances/guidance/hazardous-substances-that-activate-key-safety-controls/>

16. Other Information

This SDS contains only safety-related information. For other data see product information literature.

Fire/Ambulance/Police NZ	111
Cas #	Unique number identifier of chemical substance information
EMS	Emergency response for shipping
EPA	Environmental Protection Agency
ERG	Emergency code for first responders
IMDG	International Maritime Dangerous Goods Class Code
LEL	Lower explosive limit
UEL	Upper explosive limit
mg/m ³	milligrams per cubic mtr
ppm	parts per million
STEL	Short term exposure limit, maximum airborne concentration to which a worker may be exposed to in any 15-minute period, provided the TWA is not exceeded
STOT	Specific Target Organ Toxicity
TWA	Time Weighted Average, maximum exposure allowed in an 8-hour period
UN Number	United Nation Number assigned to Dangerous Goods
WES	Workplace Exposure Standard
Other References	Manufacturers/Supplier SDS's, Worksafe NZ]

Review: May 2021

Reason: Updates, pictograms & GHS Coding

Disclaimer: The information given in this safety data sheet is given in good faith and is believed to be valid and accurate at the time of publication. However, no responsibility is accepted for accident or injury which may occur from omissions or from information contained in the data sheet.

HS Composites 05/21