



## Safety Data Sheet Neo-Pro Gelcoat

Updated May 2023

## 1. Identification of the Material and Supplier

**Product Code and Name:** 885-64xxx family of Neo-Pro Gelcoat

**UN Number:** 1866

**DG Class:** 3

**Shipping Name:** Resin Solution, Flammable

**Packaging Group:** III

**Hazchem Code:** 3Y

**Uses:** Spray up

**Company:** H S Composites Ltd

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## 2. Hazard Identification

**Regulatory Information:**

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

**HSNO Approval Number** HSR002502

**Dangerous Goods Class** 3

**Hazardous Classifications**

Flammable Liquid	Category 3
Reproductive Toxicity	Category 1
Specific Target Organ Toxicity - Repeated Exposure	Category 1
Specific Target Organ Toxicity – Single Exposure	Category 3
Skin Irritation	Category 2

Serious Eye Damage / Eye Irritation	Category 2
Skin Sensitizer	Category 1A
Hazardous to the Aquatic Environment Chronic	Category 3

Signal Word: **DANGER**

Pictograms:

**HEALTH HAZARDS:**

H226	Flammable Liquid and Vapour
H302	May damage fertility or the unborn child
H315	Causes Skin Irritation
H319	Causes damage to organs through prolonged or repeated exposure
H332	May cause respiratory irritation
H341	Causes serious eye irritation
H351	May cause an allergic skin reaction
H355	Harmful to aquatic life with long lasting

**ENVIRONMENT HAZARDS:**

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

**PRECAUTIONARY STATEMENTS: Preventions**

P103	Read Label/SDS before use
P210	Keep away from heat/sparks/open flame/hot surfaces. 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
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 + P312	If swallowed call POISON CENTRE or DOCTOR if you feel unwell
P330	Rinse out mouth
P302 + P352	If on skin, wash with plenty of soap and water
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
P305 + P351	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 (CO <sub>2</sub> ) to extinguish
P391	Collect any spillage
P301+P330	IF SWALLOWED: Rinse out mouth, do not swallow water, DO NOT induce vomiting.
P370+P378	In case of fire: Use appropriate media for extinction.

**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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### 3. Composition / Information on Ingredients

Styrene	100-42-5	30-<60
Kaolin	1332-58-7	10-<25
Titanium dioxide	13463-67-7	10-<20
Diethylene glycol	111-46-6	10-<20
Talc	14807-96-6	10-<20
Methyl Methacrylate	80-62-6	5-<10
silica gel, precipitated, crystal free	112926-00-8	1-<5
Fumed Silica	112945-52-5	1-<2.5
2-Hydroxyethyl methacrylate	868-77-9	1-<2.5
Crystalline silica	14808-60-7	<0.3
Cobalt octoate	136-52-7	<0.25
2-Hydroxy-4-methoxybenzophenone	131-57-7	<0.25
Dicocodimethylammonium chloride	61789-77-3	<0.25
Non-hazardous ingredients		Balance

### 4. First Aid

**For advice, contact the National Poisons Centre**

Phone New Zealand: 0800 764 766 or a doctor.

**Inhalation:** Remove to fresh air. If exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.

**Skin Contact:** If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice. Launder contaminated clothing before re-use.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove

contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion:** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a doctor.

**Most Important Symptoms and Effects, Acute and Delayed Itching. Rashes. Hives. Burning sensation.**

**Note to Doctor/Physician:** Treat symptomatically.

#### 5. Fire Fighting Measures

**Suitable Extinguishing Media:** Carbon dioxide. dry chemical. Alcohol resistant foam. Water spray.

**Unsuitable Extinguishing Media:** full water jet

**Protective Equipment:** Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

**Special Hazards:** May be ignited by heat, sparks, or flames. In case of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapours. Flammable. Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitiser. May cause sensitization by skin contact.

HAZCHEM Code: •3Y

#### 6. Accidental Release Measures

**Personal precautions:** Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes, or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Pay attention to flashback. Take action to prevent static discharge. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Ventilate the area.

**Methods For Containment:** Stop leak if safe to do so. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches, and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods For Cleaning Up:** Take action to prevent static discharge. Dam up. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal.

**Environmental Precautions:** Avoid release to the environment.

References to other sections: See Sections 7, 8 and 13 for additional information.

## 7. Handling and Storage

### Handling

**Precautions:** Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take action to prevent static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

**Special Handling Statements:** Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Take action to prevent static discharge. Use grounding and bonding connection when transferring this material to prevent static discharge, fire, or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes, or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink, or smoke when using this product. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and shoes without delay. Avoid excessive heat, contamination, or exposure to direct sunlight to prevent polymerization. Containers must be bonded and grounded when pouring or transferring material.

### Storage

Keep container tightly closed and dry in a cool, well-ventilated place. Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, and static

electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the national regulations. Store in accordance with local regulations. Store locked up. Keep out of reach of children. Store separately.

**Storage Temperature:** Store at < 35 °C 95 °F

**Reason:** Higher storage temperature reduces shelf life and increases risk of hazardous polymerization.

8. Exposure Controls / Personal Protective Equipment
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CONTROL PARAMETERS - Limits

**Styrene 100-42-5**

New Zealand:	20 ppm (TWA)
	85 mg/m <sup>3</sup> (TWA)
	40 ppm (STEL) 170 mg/m <sup>3</sup> (STEL)
ACGIH (TLV):	20 ppm (STEL)
	10 ppm (TWA)

**Biological Exposure Limit(s)**

**Styrene 100-42-5**

Biological Exposure Indices	400 mg/g creatinine (urine - end of shift)
	40 µg/L (urine - end of shift)

**Engineering Measures:**

Ensure adequate ventilation, especially in confined areas.

**Respiratory Protection:**

Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure. Where exposures are below the established exposure limit, no respiratory protection is required. Where respiratory protection is required, use a respirator selected and in accordance with AS/NZS 1715 and AS/NZS 1716.

**Eye protection:**

Tight sealing safety goggles. Face protection shield.

**Skin Protection:**

Antistatic footwear. Wear fire/flame resistant/retardant clothing. Gloves made of plastic or rubber. Wear suitable protective clothing. Apron.

**Hand protection:**

Wear protective gloves. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility etc) is noticed.

**Additional Advice:**

When using do not eat, drink, or smoke. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink, or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes, or clothing. Wash contaminated clothing before reuse.



9. Physical / Chemical Properties
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<b>Physical Description &amp; colour:</b>	Liquid, clear hazy
<b>Odour:</b>	Characteristic styrene
<b>Boiling Point:</b>	145°C (Based on Components)
<b>Flammable Liquid Flash Point:</b>	31°C Tag Closed Cup
<b>Flammable Limits:</b>	LEL (lower explosive limit) 1.1% UEL (upper explosive limit) 6.1%
<b>Viscosity (Kinematic)</b>	316 mm <sup>2</sup> /s
<b>Viscosity (Dynamic)</b>	> 300 mPa.s
<b>Solubility in Water</b>	Insoluble
<b>Vapour Pressure</b>	6 hPa, 20°C Derived from solvent
<b>Specific Gravity/Density:</b>	0.95 g/cm

**Information with regard to physical hazard classes** Not applicable

**Other safety characteristics** Not applicable

10. Stability and Reactivity
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<b>Reactivity</b>	No information available
<b>Stability</b>	Stable
<b>Conditions to Avoid:</b>	Heat, flames, and sparks
<b>Polymerization:</b>	May occur
<b>Conditions to Avoid:</b>	None known
<b>Materials to Avoid:</b>	Strong Acids Strong bases Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Carbon monoxide and carbon dioxide

11. Toxicological Information
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**Likely Routes of Exposure:** Respiratory System, Skin, Eyes

#### HEALTH HAZARD INFORMATION

**Acute toxicity - oral:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Acute toxicity - dermal:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Acute toxicity - inhalation:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Skin corrosion / irritation:** Causes skin irritation

**Serious eye damage / eye irritation:** Causes serious eye irritation

**Respiratory sensitization:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Skin sensitization:** May cause an allergic skin reaction

**Carcinogenicity:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Germ cell mutagenicity:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

**Reproductive toxicity:** May damage fertility or the unborn child

**Specific target organ toxicity (single exposure):** May cause respiratory irritation.

**Specific target organ toxicity (repeated exposure):** Causes damage to organs through prolonged or repeated exposure.

**Route of Exposure:** inhalation Affected Organs: Central nervous system, Ears, Respiratory System, Lung, Eyes, Skin

**Aspiration hazard:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

#### PRODUCT TOXICITY INFORMATION

##### ACUTE TOXICITY DATA

Oral	rat	Acute LD50		> 2000	mg/kg
dermal	rabbit	Acute LD50		> 2000	mg/kg
inhalation	rat	Acute LC50	4 hr	> 20	mg/l (Vapor)

**Specific target organ toxicity (single exposure):** May cause respiratory irritation.

##### LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	Skin	Irritating to skin
Acute Irritation	Eye	Irritating to eyes.

##### ALLERGIC SENSITIZATION

Sensitization	Skin	Sensitizing
Sensitization	Respiratory	No data

##### SUBACUTE/SUBCHRONIC TOXICITY

**Specific target organ toxicity (repeated exposure):** Causes damage to organs through prolonged or repeated exposure.

##### GENOTOXICITY

###### Assays for Gene Mutations

Ames Salmonella Assay	No data
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###### Reproductive Toxicity

Contains a known or suspected reproductive toxin

###### Chronic toxicity

Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. May cause adverse liver effects. Contains a known or suspected reproductive toxin.

##### OTHER INFORMATION

The product toxicity information above has been estimated.

12. Ecological Data
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**Aquatic Chronic Toxicity:** Harmful to aquatic life with long lasting effects.

The ecological assessment for this material is based on an evaluation of its components.

##### ECOTOXICITY

Not Available

Poisons Information Centre call 0800 764 766 from anywhere in New Zealand Page 10 of 13

**BIOACCUMULATIVE POTENTIAL**

Not Available

**PERSISTENCE AND DEGRADABILITY**

Not Available

**MOBILITY IN SOIL**

Not available

**OTHER ADVERSE EFFECTS****HAZARD TO THE OZONE LAYER**

Not available

**HAZARDOUS INGREDIENT TOXICITY DATA**

Component / CAS No.	Toxicity to Fish
Styrene (100-42-5)	LC50 = 3.24 - 4.99 mg/L - Pimephales promelas (96h)
Ammonium polyphosphate (68333-79-9)	LC50 > 500 mg/L - Brachydanio rerio (96h) LC50 = 123 mg/L - Oncorhynchus mykiss (96h) LC50 685 - 1066 mg/L - Oncorhynchus mykiss (96h)
	LC50 389 - 654 mg/L - Pimephales promelas (96h)

Component / CAS No.	Toxicity to Water Flea
Styrene (100-42-5)	EC50 = 4.7 mg/L - Daphnia magna (48h) NOEC = 1.01 mg/L - Daphnia magna (21d) LC50 = 9.5 mg/L - Hyalella azteca (96h)

Component / CAS No.	Toxicity to Algae
Styrene (100-42-5)	EC50 = 6.3 mg/L - Pseudokirchneriella subcapitata (96h)

Component / CAS No.	Partition coefficient
Styrene (100-42-5)	2.96

## 13. Disposal Considerations

**Waste Treatment Methods**

The company encourages the recycle and reuse of products and packaging, where possible and permitted.

**Product disposal**

When recycle or reuse is not possible, the company recommends that our products, especially when classified as hazardous, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

**Packaging disposal**

Handle contaminated packages in the same way as the product itself. Disposal of emptied and cleaned packaging must be made in accordance with applicable local and national regulations.

**Disposal-relevant information**

Do not release directly or indirectly to surface water, ground water, soil, or public sewage system.

## 14. Transport Information

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

**Road transport**

Dangerous Goods? X

PROPER SHIPPING NAME:	RESIN SOLUTION
Hazard Class:	3
UN Number:	UN1866
Packing Group:	III
Transport Label Required:	Flammable liquid
HAZCHEM Code:	•3Y
IERG:	14

**IMO**

Dangerous Goods? X

UN PROPER SHIPPING NAME:	RESIN SOLUTION
Transport Hazard Class:	3
UN Number:	UN1866

Packing Group: III  
Transport Label Required: Flammable liquid

**ICAO / IATA**

Dangerous Goods? X  
UN PROPER SHIPPING RESIN SOLUTION

Transport Hazard Class 3  
Packing Group III  
UN Number UN1866  
Transport Label Required Flammable Liquid

**SPECIAL PRECAUTIONS FOR USER**

Protect against external heat sources above +35°C

**15. Regulatory Information****Safety, health and environmental regulations specific for the product in question**

**Ozone Depleting Substances (Regulation (EC) No 1005/2009):** Not applicable

**Persistent Organic Pollutants (Regulation (EC) No 850/2004):** Not applicable

**EPA New Zealand HSNO approval code or group standard:** HSR002495

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

**Health and Safety at Work Hazardous Substances Regulations 2017****Tracking:**

This product does not require tracking

**Certified Handler:**

This product does not require a certified handler.

**Controlled Substance:** This product does not require a Controlled Substance Licence

**Inventory Information**

**New Zealand:** This product is approved or exempt under the Hazardous Substances and New Organisms (HSNO) Act.

**16. Other Information**

**Reasons for Issue:** Revised All Sections

**Date Prepared:** May-2023