Safety Data Sheet Frekote 700-NC

Updated April 2021

1. Identification of the Material and Supplier

Product Name:	Frekote 700-NC
Product Code:	FREKOTE700-NC
UN Number:	1866
DG Class:	3
Shipping Name:	RESIN SOLUTION (Flammable)
Packaging Group:	III
Hazchem Code:	3Y
Intended Use:	Release Agent for GRP Moulds
Company:	H S Composites Ltd
Address:	63 Hunua Road, Papakura, Auckland 2110
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2. Hazard Identification

Regulatory Information:

Solvents (Flammable) Group Standard 2017

HSNO Approval Number: HSR002650

Dangerous Goods Class: 3

HAZARDOUS CLASSIFICATIONS

Flammable Liquid	Category 3
Acutely Toxic (Oral)	Category 3
Skin Irritation	Category 2
Skin Sensitizer	Category 1
Serious Eye Damage/Irritation	Category 2
Aspiration Hazard	Category 1
STOT (Single Exposure) Respiratory Tract	Category 3
STOT (Single Exposure) Central Nervous System	Category 3
Aquatic Toxicity (Acute)	Category 2
Aquatic Toxicity (Chronic)	Category 2

Signal Word: DANGER

Pictograms:

Flammable Irritant Harmful Aquatic Hazard

HEALTH HAZARDS

H226	Flammable Liquid and Vapour
H302	Harmful if Swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes Skin Irritation
H317	May cause an allergic skin reaction
H319	Causes Serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

ENVIRONMENT HAZARDS

H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

PREVENTION

P201	Obtain instruction before using this product, read Safety Data Sheet/Label
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
P261	Do not breathe dust/fume/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
P272	Contaminated work clothing should not leave the workplace
P273	Avoid release into the environment
P280	Wear protective clothing, gloves and eye protection

RESPONSE

P101	If medical advice is needed, have product container or label at hand
P301 + P310	If swallowed call POISON CENTRE or DOCTOR immediately

P330	Rinse out mouth
P302 + P352	If on skin or hair, 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.
P312	Call POISON CENTRE or DOCTOR if you feel unwell
P305 + P351 + P358	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so, continue to rinse
P301 + P330	IF SWALLOWED: Rinse out mouth, do not swallow water, DO NOT induce vomiting.
P333 + P313	If skin irritation persists seek medical advice
P337 + P313	If eye irritation persists 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 to an appropriate treatment and disposal facility in accordance with applicable laws and regulations

Dangerous Goods Classification **3**

Packing Group **III**

Hazchem Code **3Y**

3. Composition / Information on Ingredients

Component	Cas No	Proportion
Solvent naphtha (Low Benzine Content)	64742-48-9	60-100%
Dibutyl Ether	142-96-1	10-30%
Alkanes, C7-C10-iso	90622-56-3	<5%
Octane (and isomers)	111-65-9	<5%
Reaction product of TMAS and PDMS (see Section 16)	1432471-92-5	<3%

Non-Hazardous Ingredients		<10%

4. First Aid Measures

For advice, contact the National Poisons Centre

(Phone New Zealand: 0800 764 766) or a doctor.

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

Inhalation: Move the person to fresh air immediately. Begin artificial respiration if breathing has stopped and get immediate medical assistance. Do not use mouth to mouth method if the victim has ingested or inhaled the substance, give artificial respiration with the aid of a pocket mask. 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. It 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, DO NOT induce vomiting. Rinse mouth. Get immediate medical attention. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth.

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 this material as an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

5. Fire Fighting Measures

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

Suitable extinguishing media: Foam, dry chemical or carbon dioxide (CO_2).

DO NOT use straight jet streams of water.

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. Thermal decomposition can lead to the release

of irritating gases and vapours, oxides of carbon, smoke and fumes.

Precautions for fire fighters and special protective equipment: WARNING FLAMMABLE. Vapours may accumulate in low or confined areas, can travel considerable distance to source of ignition and flash back. Can form explosive gas/air mixtures.

Hazchem Code: 3Y

SPECIAL FIREFIGHTING PROCEDURES.

Keep containers cool with water spray/fog.

6. Accidental Release Measures

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

Ensure there is adequate ventilation.

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). Evacuate immediate area. 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. 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.

Contaminated absorbent 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.

7. Handling and Storage

Keep away from children.

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

Take measures to prevent static discharge when using.

Wash skin with soapy water, launder contaminated clothing before re-use.

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

This product is flammable. Isolate from all potential sources of ignition 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.

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
Rubber Solvent (naphtha)	64742-48-9	400ppm
Octane	111-65-9	300ppm

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.

Skin Protection: Wear overalls or other work clothing providing arm and leg cover. Use protective gloves (Nitrile Rubber Gloves). Replace as required.

Eye Protection: Safety goggles or splash mask.

9. Physical / Chemical Properties

Physical Description & colour:	Colourless Liquid
Odour:	Mild solvent
Boiling Point:	>112°C
Flammable Liquid Flash Point:	31°C
Evaporation Rate:	Slower than ether
Flammable Limits:	
LEL (lower explosive limit)	0.6%
UEL (upper explosive limit)	8.5% This product is not explosive but can form explosive vapour/air mixture
Specific Gravity:	0.754
Percentage of Volatiles:	85% - 754gm/ltr
Water Miscibility:	Immiscible in water
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, open flames and sparks, vapours may form an explosive mixture with air. When being sprayed the mist may be flammable at temperatures below the flash point of 31°C.
Materials to avoid:	Strong oxidising agents

Hazardous Decomposition: May occur as result of vapour/air mixture, giving off irritating organic vapours and carbon oxides.

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: Vapours and mist will irritate the nose, throat and eyes. Can affect the central nervous system with signs of dizziness, fatigue, nausea and headache.

Eye Contact: Vapours may irritate the eyes causing redness and tearing, contact with the eye will cause severe irritation.

Skin Contact: Solvents within the product can dry out and defat the skin causing it to crack, which may lead to dermatitis. Contact with the skin can cause irritation and allergic reaction (sensitization) in some individuals.

If Swallowed: Can affect the central nervous system with signs of dizziness, fatigue, nausea, headache and unconsciousness.

Chronic effects of overexposure:

Mild dermatitis may result from prolonged or repeated skin contact. 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.

This product is toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Toxic to aquatic life with log lasting effects.

H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects

13. Disposal Considerations

Waste Disposal: Recover or recycle if possible.
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. 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

14. Transport Information

UN Number: 1866

Proper Shipping Name: RESIN SOLUTION (Flammable)

Hazchem Class: 3

Hazchem Code:	3Y
Packing Group:	III
IMDG Code:	3
Tunnel Restriction:	
ERG Code:	127
EMS Code:	F-E, S-E
Environmental Hazard:	Marine Pollutant **- Yes**

15. Regulatory Information

EPA New Zealand HSNO approval code HSR002650.

Solvents (Flammable) Group Standard 2017

NZ Inventory of Chemicals – Complies

SDS To be available within 10 minutes when required.

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
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
TWA	Time Weighted Average, maximum exposure allowed in an 8-hour period
TMAS	Tris(n-methylamino) methylsilane
PDMS	Silanol terminated polydimethylsiloxane
UN Number	United Nation Number assigned to Dangerous Goods
EPA	Environmental Protection Agency
IMDG	International Maritime Dangerous Goods Class Code
LEL	Lower explosive limit
UEL	Upper explosive limit
ppm	parts per million
mg/m^3	milligrams per cubic mtr

EMS	Emergency response for shipping
ERG	Emergency code for first responders
STOT	Specific Target Organ Toxicity
Other References	Manufacturers/Supplier SDS's

Review: April 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