SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product:	Sabre Surface Activator
Product Use:	Surface cleaner and activator for removing surface contaminants from non porous substrates and to improve adhesion prior to using FORMOA adhesives
Restrictions of use:	Refer to Section 15
New Zealand Supplier:	Sabre Adhesives Ltd
Address:	42 Cambridge Street Levin, 5510, New Zealand
Telephone:	+64 (0)6 366 0007
Emergency No:	**0800 764 766 (National Poison Centre)**
Australian Supplier:	Sabre Adhesives Ltd
Address:	Level 6, 10 Herb Avenue, Sydney, NSW, 2127
Telephone No:	+61 2 9098 8244
Emergency No:	**13 11 26 (National Poison Line)**
Date SDS Issued:	29 July 2021

Section 2. Hazards Identification

Australia NOHSC – Is hazardous according to Safe Work Australia NOHSC 2011 National Code of Practice

NZ - This substance is hazardous according to The HSNO (Minimum Degrees of Hazard) Regulations 2001

NZ - EPA Approval Code: Cleaning Products (Flammable) - HSR002528

Pictograms

Flammable Irritant

SIGNAL WORD: DANGER

HSNO Class.	Hazard Code	Hazard Statement	GHS Category
3.1B	H225	Highly flammable liquid and vapour.	Category 2
6.1E (oral)-NZ only	H303	May be harmful if swallowed.	Category 5
6.3B	H316	Causes mild skin irritation.	Category 3
6.4A	H319	Causes serious eye irritation.	Category 2A

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use CO2, sand, extinguishing powder for extinction.

Storage Code	Storage Statement
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement
P501	Dispose of according to the local authorities

Section 3. Composition of hazardous Ingredients

If in Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

If on Skin Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/ attention.

If Swallowed Rinse mouth. Never give anything by mouth to an unconscious person. Consult a doctor if you feel unwell.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position

Ingredients	Wt%	CAS NUMBER.
Propan-2-ol	50-100	67-63-0
Tetraisopropyl orthotitanate	2.5-10	546-68-9

Section 4. First Aid Measures

Routes of Exposure:

and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Section 5. Fire Fighting Measures

Hazard Type	Highly Flammable
Hazards from products	No dangerous decomposition products known.
Suitable Extinguishing media	CO_2, sand, extinguishing powder. Do not use water.
Precautions for firefighters and special protective clothing	Wear self-contained breathing apparatus and protective suit.
HAZCHEM CODE	3YE

Section 6. Accidental Release Measures

Extinguish all ignition sources. Avoid sparks, flames and heat. Do not smoke. Only qualified personnel equipped with suitable protective equipment as detailed in Section 8 may intervene.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Do not allow product to reach sewage system or any water course. Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

This material and its container must be disposed of in a safe way, and as per local legislation.

Section 7. Handling and Storage

Handling:

- Keep out of reach of children.
- Read label before use.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wash hands thoroughly after handling.
- Wear protective clothing.

Storage:

- Store locked up.
- Store in a cool, dry, well ventilated place.
- Keep container tightly closed.
- Isolate from incompatible materials detailed in Section 10.

Section 8 Exposure Controls / Personal Protection

Exposure Limit Values:

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	TWA mg/m^3	STEL ppm	STEL mg/m^3
Isopropyl alcohol [67-63-0]	400	983	500	1,230

Workplace Exposure Standard – Time Weighted Average (WES-TWA).The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls

Ensure good ventilation of the work station.

Personal Protection Equipment

Respiratory Protection
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Skin Protection
Wear protective gloves and clothing.

Eye Protection
Wear tightly sealed goggles with side shields. Avoid wearing contact lenses.

Section 9 Physical and Chemical Properties

Appearance	Colourless Liquid
Odour	Alcohol like
Odour Threshold	Not applicable
pH	Not applicable
Boiling Point	82^0C
Melting Point	Not applicable
Freezing Point	Not applicable
Flash Point	13^0C
Flammability	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
Upper and Lower Explosive Limits	2.0 – 12%

Vapour Pressure	43 hPa@20^{0}C
Density	0.8035 g/cm^3 at 20°C
Specific Gravity	Not applicable
Solubility in water	Not miscible or difficult to mix
Partition Coefficient:	Not applicable
Auto-ignition Temperature	425^{0}C
VOC Content	90.0%
Organic solvents	90.00%

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions
Conditions to Avoid	All heat sources, including direct sunlight.
Incompatible Materials	None known.
Hazardous Decomposition Products	None known.

Section 11 Toxicological Information

Acute Effects:

Swallowed	May be harmful if swallowed.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes severe irritation to eyes.
Skin	Causes mild skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Propan-2-ol (67-63-0)	
LD_{50} oral rat	5045 mg/kg
LD_{50} dermal rabbit	12800 mg/kg
LC_{50} inhalation rat (mg/l)	30 mg/l

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Persistence and degradability	No data available.
Biodegration	No data available.

Bioaccumulation	No data available.
Mobility in Soil	No data available.
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method: Flammable vapours may accumulate in the container. Clean up even minor leaks or spills, if possible, without unnecessary risk. Place recovered product into an appropriate waste container for disposal through appropriate waste company or specialized landfill in accordance with local regulations.

Precautions: Ensure waste container containing recovered product is labelled "Hazardous Waste – Flammable".

Disposal methods to avoid: None known.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in Australia; ADG 7
This product is classified as a Dangerous Good for transport: NZS 5433:2012

Road and Rail Transport

UN No:	1993
Class-primary	3
Packing Group	II
Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))

Air Transport

UN No:	1993
Class-primary	3
Packing Group	II
Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))

Marine Transport

UN No:	1993
Class-primary	3
Packing Group	II
Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))
Marine Pollutant:	No

Section 15 Regulatory Information

Australia:
Australia NOHSC – Hazardous according to Safe Work Australia NOHSC 2011 National Code of Practice

Poison Schedule No: Not Scheduled.

New Zealand:
EPA Approval Code: Cleaning Products (Flammable) – HSR002528

HSNO Classification: 3.1B, 6.1E(oral), 6.3B, 6.4A

HSNO Controls in New Zealand:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	250L if container is >5L 500L if container is <5L
Location Certificate	100L (>5L), 250L (<5L), 50L open
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantities	250L (3.1B)
Emergency Response Plan trigger Quantities	1000L (3.1B)
Secondary Containment	1000L (3.1B)
Restrictions of use	None

Section 16 Other Information

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.
2. Safe Work Australia NOHSC 2011 National Code of Practice

Disclaimer

This document has been issued by the TCC(NZ) Ltd and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to the TCC(NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC(NZ) Ltd have taken all due care to include accurate and upto-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC(NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the distributor if further information is required.

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