

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	Product Name	C-60 Tack Cloths
	Product Code(s)	S004
1.2 Relevant identified uses of the substance or mixture and uses advised against	Identified use(s)	Cleaning and preparation of aircraft skin prior to painting
	Uses advised against	Cleaning and preparation of aircraft skin prior to painting Product is for professional use only Must not be used by persons under the age of 18, except when adult supervision is available.
1.3 Details of the supplier of the Safety Data Sheet	Company Identification	Alexander Fraser and Son Trading Ltd, t/as Fraser's Aerospace 185-187 High Road Chadwell Heath Romford Essex RM6 6NR United Kingdom
	Telephone	+44 (0)20 8597 8781
	E-Mail (competent person)	jason.england@alex-fraser.co.uk
1.4 Emergency telephone number	Emergency Phone No.	+44 (0)20 8597 8781 (08.00 – 17.00 GMT Monday - Friday)

2. SECTION 2: HAZARDS IDENTIFICATION

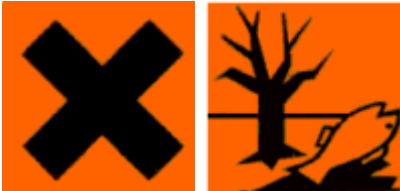
2.1 Classification of the substance or mixture	
2.1.1 Regulation (EC) No. 1272/2008 (CLP)	
2.1.2 Directive 67/548/EEC & Directive 1999/45/EC	
2.2 Label elements	
2.2.1 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
	GHS Product Identifier
	Hazard Pictogram



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Signal word(s)		Warning
Hazard statement(s)		H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H411: Toxic to aquatic life with long lasting effects.
Precautionary statement(s)		P102: Keep out of reach of children. P262: Do not get in eyes, on skin, or on clothing. P271: Use only in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P501: Dispose of contents/container to: hazardous waste site. According to Directive 67/548/EEC & Directive 1999/45/EC
2.2.2 Label elements		
Hazard Symbol		
Risk Phrases		R36/38: Irritating to eyes and skin. R43: May cause sensitivity by skin contact. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases		S2: Keep out of the reach of children. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28: In case of contact with skin wash immediately with plenty of soap and water. S37/39 - Wear suitable gloves and eye/face protection. S51: Use only in well ventilated areas. S61: Avoid release to the environment. Refer to special instructions/ Safety data sheets.
2.3 Other hazards		None
2.4 Additional Information		None

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	Cas No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Bisphenol A Epoxy Resin	40 - 50	25068-38-6	500-033-5	01-2119456619-26	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Chronic Aquatic Tox. 2, H411

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	Cas No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Bisphenol A Epoxy Resin	40 - 50	25068-38-6	500-033-5	01-2119456619-26	R36/38 R43 R51/53

3.3 Additional Information

For full text of H/P phrases see section 16. For full text of R/S phrases see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

Remove persons affected by vapour to fresh air.
For those providing assistance, avoid exposure to yourself or others.
If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance.
If breathing is irregular or has stopped, administer artificial respiration.
Remove contaminated clothing and wash affected skin with water.
Wash contaminated clothing before reuse.

Skin Contact



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	Eye Contact	Eyes should be washed with plenty of water. Get immediate medical attention.
	Ingestion	Wash out mouth with water. Do not induce vomiting. If symptoms persist, obtain medical attention.
4.2	Most important symptoms and effects, both acute and delayed	Itching, pain, redness, and swelling of skin.
4.3	Indication of immediate medical attention and special treatment needed	Pain, irritation, watering and redness of the eyes. No specific data.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1	Extinguishing Media Suitable Extinguishing Media	Extinguish with dry chemical, foam, water spray, or carbon dioxide.
	Unsuitable Extinguishing Media	Straight streams of water
5.2	Special hazards arising from the substance or mixture	Harmful to aquatic life with long lasting effects. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: carbon oxides.
5.3	Advice for fire-fighters	Evacuate area. If a leak or a spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop a leak. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel




6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	Avoid contact with spilled material. Wear suitable protective equipment. Refer to section 5 for fire-fighting; section 4 for first-aid advice; and section 8 for minimum requirements for personal protective equipment.
6.2	Environmental precautions	Do not allow to enter drains, sewers or watercourses.
6.3	Methods and material for containment and cleaning up	Adsorb spillages onto sand, earth or any suitable adsorbent material.
6.4	Reference to other sections	Section 1 for emergency contact. Section 8 for information on appropriate personal protective equipment.
6.5	Additional Information	None

7. SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	Avoid contact with skin. Avoid breathing fumes. Avoid ingestion. Avoid inhalation of vapours. Use only with adequate ventilation. Keep away from heat and sources of ignition. Keep container tightly closed. Wear protective gloves/clothing and eye/face protection.
7.2	Conditions for safe storage, including any incompatibilities	
	Storage Temperature	Store between 0°C to 25°C
	Storage Life	2 years
	Incompatible materials	Oxidising agents.
7.3	Specific end use(s)	For use on aircraft only

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters	
8.1.1	Occupational Exposure Limits	Not established
8.1.2	Biological limit value	Not established
8.1.3	PNECs and DNELs	Not established
8.2.1	Appropriate engineering controls	
8.2.2	Personal protection equipment	
	Eye/face protection	Wear chemical safety glasses with side shields, or splash-proof goggles.
		
	Skin protection (Hand protection/ Other)	
		
	Respiratory protection	
		
	Thermal hazards	None Known
8.2.3	Environmental Exposure Controls	See sections 6,7,12,13



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9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Appearance	Cotton cloth
	Colour	White
	Odour	Slight
	Odour Threshold (ppm)	No data available
	pH (Value)	Not applicable
	Melting Point (°C) / Freezing Point (°C)	No data available
	Boiling point/boiling range (°C):	Not applicable
	Flash Point (°C)	Not applicable
	Evaporation rate (Butyl Acetate = 1)	Not applicable
	Flammability (solid, gas)	Not applicable
	Explosive limit ranges.	Not applicable
	Vapour Pressure (mm Hg)	Not applicable
	Vapour Density (Air=1)	Not applicable
	Density (g/ml)	Not applicable
	Solubility (Water)	Not applicable
	Solubility (Other)	Not applicable
	Partition Coefficient (n-Octanol/water)	Not applicable
	Auto Ignition Temperature (°C)	Not applicable
	Decomposition Temperature (°C)	Not applicable
	Viscosity (mPa.s)	Not applicable
	Explosive properties	Not applicable
	Oxidising properties	Not applicable
9.2	Other information	None

10. SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions of use
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	See 10.5
10.4	Conditions to avoid	Avoid all sources of ignition including heat, sparks and open flames. Prevent vapour accumulation.
10.5	Incompatible materials	Oxidising agents.
10.6	Hazardous Decomposition Product(s)	Hazardous decomposition products are not expected to form during normal storage. Thermal decomposition is dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon oxides will be evolved when this material undergoes combustion or thermal or oxidative degradation.



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11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity

There is no information regarding the product but one of the components (Bisphenol A Epoxy Resin) idisplayed the following results: LD50 Dermal, Rat, >2000mg/kg; and LD50 Oral, Rat, >5000mg/kg.

Irritation

No data available

Corrosivity

No data available

Sensitisation

No data available

Repeated dose toxicity

No data available

Carcinogenicity

No data available

Mutagenicity

No data available

Toxicity for reproduction

There is no information regarding the product but one of the components (Bisphenol A Epoxy Resin) idisplayed the following results: OECD 416 Two-generation Reproduction Toxicity study, Rat, Oral: 540mg/kg

11.2 Other information

None

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

There is no information regarding the product but one of the components (Bisphenol A Epoxy Resin) idisplayed the following results: 202 Daphnia sp. Acute Immobilisation Test, Acute EC50, 24 hrs, 3.6mg/L; and 203 Fish, Acute Toxicity Test LC50, 96 hrs, 1.5mg/L.

12.2 Persistence and degradability

There is no information regarding the product but one of the components (Bisphenol A Epoxy Resin) idisplayed the following results: OECD 31F, 28 days, 5% - not readily biodegradable.

12.3 Bioaccumulative potential

Low potential to bioaccumulate.

12.4 Mobility in soil

No data available

12.5 Results of PBT and VPVB assessment

No PBT or VPVB Components

12.6 Other adverse effects

None



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13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not burn, or use a cutting torch on, the empty drum.


Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

13.2 Additional Information

None

14. SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)

UN number	UN 3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S. (Bisphenol A Epoxy Resin)
Transport hazard class(es)	9
Packing Group	III
Hazard label(s)	
Environmental hazards	Marine Pollutant
Special precautions for user	None
Additional Information	Hazard ID Number: 90 Special Provisions: 274 335 601; Tunnel Code: E

14.2 Sea transport (IMDG)

UN number	UN 3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S. (Bisphenol A Epoxy Resin)
Transport hazard class(es)	9
Packing Group	III
Hazard label(s)	None
Marine Pollutant	Yes
Special precautions for user	None
Additional Information	Emergency schedules (EmS): F-A, S-F

14.3 Air transport (ICAO/IATA)

UN number	UN 3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S. (Bisphenol A Epoxy Resin)
Transport hazard class(es)	9
Packing Group	III
Hazard label(s)	None
Environmental hazards	Marine Pollutant
Special precautions for user	None
Additional Information	Passenger and Cargo Aircraft: Quantity limitation: 450L Packaging instructions: 964

14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

UN number	UN 3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S. (Bisphenol A Epoxy Resin)
Transport hazard class(es)	9
Packing Group	III
Hazard label(s)	None
Environmental hazards	Marine Pollutant
Special precautions for user	None
Additional Information	Passenger and Cargo Aircraft: Quantity limitation: 450L Packaging instructions: 964



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15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture substance or mixture	1907/2006 – REACH 1272/2008 – CLP 67/548/EEC –DSD 199/45/EC – DPD 648/2004/EC - Detergents Directive 98/8/EC - BPD
15.1.1	EU regulations Authorisations and/or restrictions on use	Refer to EU regulation for details of any actions or restrictions by the above regulations or directives
15.1.2	National regulations	Refer to national regulation for details of any actions or restrictions by the above regulations or directives
15.2	Chemical Safety Assessment	A Chemical Safety Assessment has not been carried out for this product.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
PNEL	Predicted No Effect Concentration
RCP	Reciprocal Calculation Procedure

References: Sources of information used in preparing this SDS included one or more of the following: results from in-house or supplier toxicology studies; publications from trade associations; ECHA publications; EU guidelines and other sources as appropriate.

Risk Phrases and Safety Phrases

R36/38: Irritating to eyes and skin.

R43: May cause sensitivity by skin contact.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S2: Keep out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: In case of contact with skin wash immediately with plenty of soap and water.

S37/39 - Wear suitable gloves and eye/face protection.

S51: Use only in well ventilated areas.

S61: Avoid release to the environment. Refer to special instructions/ Safety data sheets.



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Hazard statement(s) and Precautionary statement(s)

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

P102: Keep out of reach of children.

P262: Do not get in eyes, on skin, or on clothing.

P271: Use only in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P501: Dispose of contents/container to: hazardous waste site.

Additional Information

This Safety Data Sheet has been produced from information supplied by the formulators of the product, and Information contained in this publication or as otherwise supplied to users is believed to be accurate and is given in good faith, but it is for the users to satisfy themselves of the suitability of the product for their own particular purpose. Frasers Aerospace gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Frasers Aerospace accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.