



A E R O S P A C E M A T E R I A L S O L U T I O N S

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	PlexALL (Aero Cosmetics Inc.- Mnf)
Product Code(s)	Not available
1.2 Relevant identified uses of the substance or mixture and uses advised against	Aircraft multi-surface cleaner/protector.
Identified use(s)	For specific instruction see the appropriate Instruction Sheet. Product is for professional use only Must not be used by persons under the age of 18, except when adult supervision is available.
Uses advised against	None
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)	Acute Toxicity (Category 4). Harmful if swallowed. Skin Irritation (Category 2). Causes skin irritation. Eye Damage (Category 1). Causes serious eye damage. STOT RE (Category 2). May cause damage to organs.

2.2 Label elements

2.2.1 Label elements

GHS Product Identifier
Hazard Pictogram

According to Regulation (EC) No. 1272/2008 (CLP)
Not available



Signal word(s)

Hazard statement(s)

Precautionary statement(s)

Danger

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H373: May cause damage to organs.

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.

P281: Use personal protective equipment as required.

P301: IF SWALLOWED: seek medical advice immediately and show the container or label.

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

None

None

2.3 Other hazards

2.4 Additional Information

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)
2-methylpentane-2,4-diol	<10	107-41-5	203-489-0	01-2119539582-35	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Diethanolamine	1 - 5	111-42-2	203-868-0	01-2119488930-28	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373
Glycerol	1 - 2	56-81-5	200-289-5	Not available	Not classified as hazardous

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

According to the manufacturer's data they list no risk through inhalation.

Skin Contact

Remove contaminated clothing and wash affected skin with water. Wash contaminated clothing before reuse.

Eye Contact

Eyes should be washed with plenty of water. Obtain 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

None stated.

4.3 Indication of immediate medical attention and special treatment needed

Treatment should in general be symptomatic and directed to relieving any effects.



AEROSPACE MATERIAL SOLUTIONS

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	None
5.2 Special hazards arising from the mixture		None
5.3 Advice for fire-fighters		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 and eyes. Avoid ingestion. Keep away from heat and sources of ignition. Keep container tightly closed. Wear protective gloves/clothing and eye/face protection. Prevent small spills and leakages to avoid slip hazard.
7.2 Conditions for safe storage, including any incompatibilities		
	Storage Temperature	Store in a cool area. Keep from freezing and extreme heat.
	Storage Life	No data available
	Incompatible materials	No data available
7.3 Specific end use(s)		For specific instruction see the appropriate Instruction Sheet.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note:
2-methylpentane-2,4-diol	107-41-5	25	123	25	123	EH40
Glycerol	56-81-5	-	10	-	-	EH40

8.1.2 Biological limit value

Not established

8.1.3 PNECs and DNELs

Not established

8.2.1 Appropriate engineering controls

Not established

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)

Any specific glove information provided is based on published literature and glove-manufacturer data. Contact the glove manufacturer for glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. Chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet-style gloves. CEN standards EN 420 and EN 374 provide general requirements and list of glove types.



Respiratory protection

Respiratory protection is unnecessary, provided the concentration of vapour, mist or fumes is properly controlled.



If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements. Types of respirator to be considered for this mixture include: Half-face filter respirator; Type A filter material CEN standards EN136, EN140 and EN 405 provide respirator masks and EN 149 and EN 143 provide filter recommendations.

Thermal hazards

None Known

8.2.3 Environmental Exposure Controls

See sections 6,7,12,13



AEROSPACE MATERIAL SOLUTIONS

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Opaque Pink
Odour	None
Odour Threshold (ppm)	No data available
pH (Value)	7.5 – 7.8
Melting Point (°C) / Freezing Point (°C)	Freezing point = 0
Boiling point/boiling range (°C):	100
Flash Point (°C)	No data available
Evaporation rate (Butyl Acetate = 1)	No data available
Flammability (solid, gas)	No data available
Explosive limit ranges.	No data available
Vapour Pressure (psia)	14.7 at 100°C
Vapour Density (Air=1)	No data available
Density (g/ml)	1.05
Solubility (Water)	Completely soluble
Solubility (Other)	No data available
Partition Coefficient (n-Octanol/water)	No data available
Auto Ignition Temperature (°C)	No data available
Decomposition Temperature (°C)	No data available
Viscosity (mPa.s)	No data available
Explosive properties	No data available
Oxidising properties	No data available

9.2 Other information

None

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Non-reactive 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	None established.
10.5 Incompatible materials	None established.
10.6 Hazardous Decomposition Product(s)	Hazardous decomposition products are not expected to form during normal storage.



AEROSPACE MATERIAL SOLUTIONS

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity	No data available
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	No data available

11.2 Other information

None

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

The product is inherently biodegradable.

12.3 Bioaccumulative potential

There is no evidence to suggest that bio-accumulation will occur.

12.4 Mobility in soil

Product is degraded in soil.

12.5 Results of PBT and VPVB assessment

No PBT or VPVB Components

12.6 Other adverse effects

None

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



A E R O S P A C E M A T E R I A L S O L U T I O N S

14. SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)

UN number	1760
Proper Shipping Name	CORROSIVE LIQUID (Diethanolamine)
Transport hazard class(es)	8
Packing Group	II
Hazard label(s)	No
Environmental hazards	No
Special precautions for user	None

14.2 Sea transport (IMDG)

UN number	1760
Proper Shipping Name	CORROSIVE LIQUID (Diethanolamine)
Transport hazard class(es)	8
Packing Group	II
Marine Pollutant	No
Special precautions for user	None

14.3 Air transport (ICAO/IATA)

UN number	1760
Proper Shipping Name	CORROSIVE LIQUID (Diethanolamine)
Transport hazard class(es)	8
Packing Group	II
Environmental hazards	No
Special precautions for user	None

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

Not applicable

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
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 mixture



AEROSPACE MATERIAL SOLUTIONS

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

Hazard statement(s) and Precautionary statement(s)

H302: Harmful if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H373: May cause damage to organs.

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.
P281: Use personal protective equipment as required.
P301: IF SWALLOWED: seek medical advice immediately and show the container or label.
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.