Safety Data Sheet

FM-D CONTACT ADHESIVE

Regulation (EC) 1907/2006, amended by Regulation (EU) 453/2010

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	FM-D CONTACT ADHESIVE
Product number	EC2003/4
UFI	R1U9-600G-D00E-PMP7

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Adhesive.
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier	AXTER LTD, West Road, Ransomes Europark, Ipswich IP3 9SX UK **Tel: +44 (0) 1473 724056, 8.00 am to 5.30 pm, Monday to Friday** Email: info@axterltd.co.uk

1.4 Emergency telephone

	+ 44 1473 724056 (NOT 24HRS - 8am - 5.30pm, Monday Friday) In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.
National Emergency telephone	National Poisons Information Service (UK) TEL: 0844 892 0111

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Flam. Liq. 2 - H225
Health hazards	Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H336
Environmental hazards	Not Classified
Human health	Vapours/aerosol spray may irritate the respiratory system.
Physicochemical	The product is highly flammable. Vapours may form explosive mixtures with air.

2.2. Label elements

Pictogram

Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe vapours. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P281 Use personal protective equipment as required. P284 [In case of inadequate ventilation] wear respiratory protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.
Contains	BUTANONE, ACETONE, Formaldehyde, oligomeric reaction products with phenol.

2.3. Other hazards

Section 3: Composition/information on ingredients

3.2. Mixtures

BUTANONE			**30-60%**
CAS number: 78-93-3	**EC number: 201-159-0**	**REACH registration number: 01-2119457290-43**	
Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Eye Irrit. 2 - H319 STOT SE 3 - H336			
ACETONE			**10-30%**
CAS number: 67-64-1	**EC number: 200-662-2**	**REACH registration number: 01-2119471330-49**	
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336			
Formaldehyde, oligomeric reaction products with phenol.			**5-10%**
CAS number: 9003-35-4	**EC number: 500-005-2**	**REACH registration number: 01-2120735197-51-0000**	
Classification Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412			

The full text for all hazard statements is displayed in Section 16.

Section 4: First aid measures

4.1. Description of first aid measures

General information — Get medical attention if any discomfort continues.

Inhalation — Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Ingestion — Rinse mouth thoroughly with water. Get medical attention.

Skin contact — Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact — Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

General information — The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation — Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	The product is flammable. Heating may generate flammable vapours. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. The product is highly flammable.
Hazardous combustion products	Does not decompose when used and stored as recommended.

5.3. Advice for firefighters

Protective actions during firefighting	Control run-off water by containing and keeping it out of sewers and watercourses. Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.
Special protective equipment for firefighters	Wear chemical protective suit.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions — Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions — Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container.

Storage class — Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) — The identified uses for this product are detailed in Section 1.2.

Section 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

BUTANONE

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 600 mg/m3(Sk)
Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 899 mg/m3(Sk)

ACETONE

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m^3
Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m^3
WEL = Workplace Exposure Limit

Ingredient comments — WEL = Workplace Exposure Limits

BUTANONE (CAS: 78-93-3)

Ingredient comments — WEL = Workplace Exposure Limits

Biological limit values — Short Term Value: 300ppm Long Term Value: 200ppm

DNEL — Consumer - Oral; Long term systemic effects: 31 mg/kg bw/day
Consumer - Dermal; Long term systemic effects: 412 mg/kg bw/day
Workers - Dermal; Long term systemic effects: 1161 mg/kg bw/day
Consumer - Inhalation; Long term systemic effects: 106 mg/m^3
Workers - Inhalation; Long term systemic effects: 600 mg/m^3

PNEC — Fresh water; 55.8 mg/l

Sediment (Freshwater); 284.7 mg/kg
Intermittent release; 55.8 mg/l
Sediment (Marinewater); 284.7
Marine water; 55.8 mg/l
STP; 709 mg/l
Soil; 22.5 mg/kg

ACETONE (CAS: 67-64-1)

Ingredient comments — WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	The following protection should be worn: Chemical splash goggles.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear apron or protective clothing in case of contact.
Hygiene measures	Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash contaminated clothing before reuse. Wash hands after handling. Eating, smoking and water fountains prohibited in immediate work area.
Respiratory protection	In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear a respirator fitted with the following cartridge: ABEK2-P3.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Amber.
Odour	Characteristic.
Odour threshold	Not available.
pH	Not available.
Melting point	Not available.

Initial boiling point and range	Not determined.
Flash point	-17°C Not specified.
Evaporation rate	Not determined.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.8 Upper flammable/explosive limit: 13
Other flammability	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.83 @ 20°C
Bulk density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	515°C
Decomposition Temperature	Not available.
Viscosity	Kinematic viscosity > 20.5 mm^2/s.
Explosive properties	Not available.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not available.
Comments	Information given is applicable to the product as supplied.

9.2. Other information

Other information	No information required.
Refractive index	Not available.
Particle size	Not available.
Molecular weight	Not available.
Volatility	Not available.
Saturation concentration	Not available.
Critical temperature	Not available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability	No particular stability concerns. Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not applicable. Not relevant.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral	
ATE oral (mg/kg)	4,347.83
Acute toxicity - dermal	
ATE dermal (mg/kg)	4,347.83
Acute toxicity - inhalation	
ATE inhalation (vapours mg/l)	43.48

Toxicological information on ingredients.

	BUTANONE
Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	2,000.0
Species	Rat
ATE oral (mg/kg)	2,000.0
Acute toxicity - dermal	
Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rabbit
ATE dermal (mg/kg)	2,000.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC_{50} vapours mg/l)	20.0
Species	Rat

ATE inhalation (vapours mg/l)	20.0
	ACETONE
Other health effects	There is no evidence that the product can cause cancer.
Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	5,800.0
Species	Rat
ATE oral (mg/kg)	5,800.0
Acute toxicity - dermal	
Acute toxicity dermal (LD_{50} mg/kg)	7,426.0
Species	Rat
ATE dermal (mg/kg)	7,426.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC_{50} vapours mg/l)	50,100.0
Species	Rat
ATE inhalation (vapours mg/l)	50,100.0
Skin corrosion/irritation	
Extreme pH	Slightly irritating.
Serious eye damage/irritation	
Serious eye damage/irritation	Moderately irritating.
Respiratory sensitisation	
Respiratory sensitisation	Not sensitising.

Section 12: Ecological Information

12.1. Toxicity

Ecological information on ingredients.

BUTANONE	
Acute toxicity - fish	LC_{50}, EC_{50}, IC_{50}, : 100 mg/l, Fish
Acute toxicity - aquatic plants	LC_{50}, EC_{50}, IC_{50}, : 100 mg/l, Algae
ACETONE	
Toxicity	Not considered toxic to fish.
Acute toxicity - fish	LC50, 96 hours: 5540 mg/l, Freshwater fish, 96 hours: 11000 mg/l, Marinewater fish LC_{50}, 96 hours: 11000 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 8800 mg/l, Daphnia magna EC_{50}, 48 hours: 8800 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{50}, 72 hours: 430 mg/l, Algae
Acute toxicity - microorganisms,	30 minutes: 1000 mg/l, Activated sludge

12.2. Persistence and degradability

Ecological information on ingredients.

ACETONE	
Persistence and degradability	The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Partition coefficient Not available.

Ecological information on ingredients.

ACETONE

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.
BCF: 3,

Partition coefficient Pow: < -0.24

12.4. Mobility in soil

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

Ecological information on ingredients.

BUTANONE

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

ACETONE

Mobility The product is miscible with water and may spread in water systems.

Adsorption/desorption coefficient Water - log Koc: 1.5 @ 20°C

Henry's law constant 2929-3070 Pa m^3/mol @ 25°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

BUTANONE

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

ACETONE

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

BUTANONE

Other adverse effects None known.

ACETONE

Other adverse effects Not applicable.

Section 13: Disposal considerations

13.1. Waste treatment methods

General information	Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Section 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1133
UN No. (IMDG)	1133
UN No. (ICAO)	1133

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ADHESIVES
Proper shipping name (IMDG)	ADHESIVES
Proper shipping name (ICAO)	ADHESIVES
Proper shipping name (ADN)	ADHESIVES

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID label	3
IMDG class	3
ICAO class/division	3

Transport labels

14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS	F-E, S-D

Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). Control of Substances Hazardous to Health Regulations 2002 (as amended).
EU legislation	Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Section 16: Other information

Revision date	23/06/2020
Revision	21
Supersedes date	29/04/2019
Hazard statements in full	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
Store Between	5°c - 25°c
Contains SVHC	NO

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.