



SAFETY DATA SHEET A03701

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

1.1. Product identifier

Product name A03701

Product number A03701, FP-000328, FP-000329, FP-000332, FP-000333, FP-000335, FP-000336, FP-000337, FP-000339, FP-000340, FP-001573, FP-001867, FP-001939, FP-001343

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 APOLLO CHEMICALS LTD
SANDY WAY
AMINGTON INDUSTRIAL ESTATE
TAMWORTH
STAFFS
B77 4DS
T: +44 (0) 1827 54281
F: +44 (0) 1827 53030
E: sds@apolloadhesives.com

1.4. Emergency telephone number

Emergency telephone +44 01827 69662 (NOT 24HRS)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225

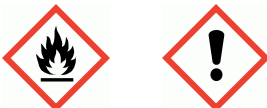
Health hazards Eye Irrit. 2 - H319 STOT SE 3 - H336

Environmental hazards Not Classified

Physicochemical The product is highly flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

2.2. Label elements

Pictogram



Signal word Danger

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Hazard statements	H225 Highly flammable liquid and vapour. 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. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face 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. P501 Dispose of contents/ container in accordance with national regulations.
Contains	BUTANONE, ACETONE, ETHYL ACETATE

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

BUTANONE		32.5%
CAS number: 78-93-3	EC number: 201-159-0	REACH registration number: 01-2119457290-43
Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H312 Eye Irrit. 2 - H319 STOT SE 3 - H336		
ACETONE		27.0%
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		
ETHYL ACETATE		22.5%
CAS number: 141-78-6	EC number: 205-500-4	REACH registration number: 01-2119475103-46-0017
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		

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

SECTION 4: First aid measures**4.1. Description of first aid measures**

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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.
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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/m ³ . 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 upwind to avoid inhalation of gases, vapours, fumes and smoke.
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.
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6.2. Environmental precautions

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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/m³

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m³

ETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

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

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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/m³
 Workers - Inhalation; Long term systemic effects: 600 mg/m³

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

ETHYL ACETATE (CAS: 141-78-6)

DNEL Workers - Inhalation; Short term systemic effects: 1468 mg/m³
 Workers - Inhalation; Short term local effects: 1468 mg/m³
 Consumer - Inhalation; Short term systemic effects: 734 mg/m³
 Consumer - Inhalation; Short term local effects: 374 mg/m³
 Workers - Inhalation; Long term local effects: 734 mg/m³
 Workers - Dermal; Long term systemic effects: 63 mg/kg bw/day
 Workers - Inhalation; Long term systemic effects: 734 mg/m³
 Consumer - Dermal; Long term systemic effects: 37 mg/kg bw/day
 Consumer - Inhalation; Long term systemic effects: 367 mg/m³
 Consumer - Oral; Long term systemic effects: 4.5 mg/kg bw/day
 Consumer - Inhalation; Long term local effects: 367 mg/m³

PNEC - Fresh water; 0.26 mg/l
 - Marine water; 0.026 mg/l
 - Intermittent release; 1.65 mg/l
 - Sediment (Freshwater); 1.25 mg/kg
 - Sediment (Marinewater); 0.125 mg/kg
 - Soil; 0.24 mg/kg
 - STP; 650 mg/l

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.

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.

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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 thoroughly after handling. When using do not eat, drink or smoke.
Respiratory protection	In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type AX.
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	Coloured liquid.
Colour	Various colours.
Odour	Acetone.
Odour threshold	Not available.
pH	pH (concentrated solution): 7-8
Melting point	Not available.
Initial boiling point and range	56°C @ 20
Flash point	-18°C CC (Closed cup).
Evaporation rate	Not determined.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	: 1.8%-13%
Other flammability	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.86 @ 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.

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Oxidising properties	Not available.
Comments	Information given is applicable to the product as supplied.
<u>9.2. Other information</u>	
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.
Volatile organic compound	This product contains a maximum VOC content of 700 g/l.

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 products may include the following substances: Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Toxicological effects No information available.

Other health effects There is no evidence that the product can cause cancer.

Acute toxicity - oral

ATE oral (mg/kg) 6,153.85

Acute toxicity - dermal

ATE dermal (mg/kg) 6,153.85

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 61.54

A03701**Serious eye damage/irritation****Serious eye damage/irritation** Irritation of eyes is assumed.**Respiratory sensitisation****Respiratory sensitisation** Not determined.**Skin sensitisation****Skin sensitisation** Not determined.**Carcinogenicity****Carcinogenicity** Data lacking.**Target organ for carcinogenicity**

Not relevant.

Reproductive toxicity**Reproductive toxicity - fertility** Not available.**Reproductive toxicity - development**

This substance has no evidence of toxicity to reproduction.

Aspiration hazard**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.**General information**

No specific health hazards known.

Inhalation

Vapour from this product may be hazardous by inhalation.

Ingestion

May be harmful if swallowed.

Skin contact

May be harmful in contact with skin.

Eye contact

May cause blurred vision and serious eye damage.

Toxicological information on ingredients.**BUTANONE****Acute toxicity - oral****Acute toxicity oral (LD₅₀ mg/kg)** 2,000.0**Species** Rat**Acute toxicity - dermal****Acute toxicity dermal (LD₅₀ mg/kg)** 2,000.0**Species** Rabbit**ATE dermal (mg/kg)** 2,000.0**Acute toxicity - inhalation****Acute toxicity inhalation (LC₅₀ vapours mg/l)** 20.0**Species** Rat**SECTION 12: Ecological Information****12.1. Toxicity**

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Toxicity The product is not believed to present a hazard due to its physical nature.

Ecological information on ingredients.BUTANONE

Acute toxicity - fish LC₅₀, EC₅₀, IC₅₀, : 100 mg/l, Algae

Acute toxicity - aquatic plants LC₅₀, EC₅₀, IC₅₀, : 100 mg/l, Fish

12.2. Persistence and degradability12.3. Bioaccumulative potential

Partition coefficient Not available.

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.

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.

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.BUTANONE

Other adverse effects None known.

SECTION 13: Disposal considerations13.1. 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 information14.1. UN number

UN No. (ADR/RID) 1133

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UN No. (IMDG)	1133
UN No. (ICAO)	1133
UN No. (ADN)	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 classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels**14.4. Packing group**

ADR/RID packing group	II
IMDG packing group	II
ADN 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
ADR transport category	2
Emergency Action Code	•3YE
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**

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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	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). Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by	Compliance
Revision date	01/06/2015
Revision	20
Hazard statements in full	H225 Highly flammable liquid and vapour. H312 Harmful in contact with skin. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Store Between	Store Between 5'c - 25'c