

SAFETY DATA SHEET ARBOGRIP TF

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

1.1. Product identifier

Product name ARBOGRIP TF

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

Identified uses Adhesive.

1.3. Details of the supplier of the safety data sheet

Supplier Adshead Ratcliffe & Co. Ltd.
Derby Road, Belper
Derbyshire.
DE56 1WJ
Tel. (+44) 01773 826661
Fax. (+44) 01773 821215
sds@arbo.co.uk

1.4. Emergency telephone number

(+44) 01773 826661 (office hours only)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xi;R38. F;R11. R52/53, R67.

Human health

Prolonged skin contact may cause redness and irritation. When working extensively on big surfaces in small and badly ventilated rooms, vapours may develop in concentrations which may cause malaise such as headache, dizziness, nausea and irritation of the respiratory system.

Environment

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

Physical and Chemical Hazards

The product contains substances classified as highly flammable.

2.2. Label elements

Labelling



Irritant



Highly flammable

Risk Phrases

R11	Highly flammable
R38	Irritating to skin.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

Safety Phrases

S16	Keep away from sources of ignition - No smoking.
S24	Avoid contact with skin.
S37	Wear suitable gloves.
S51	Use only in well-ventilated areas.
S60	This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

NAPHTHA (PETROLEUM) HYDROTREATED, LIGHT		5 - <12.5%
CAS-No.: 64742-49-0		EC No.: 265-151-9
Classification (EC 1272/2008) Flam. Liq. 1 - H224 Skin Irrit. 2 - H315 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R65. Xi;R38. F+;R12. N;R51/53.	
NAPHTHA (PETROLEUM) HYDROTREATED, LIGHT; MIXTURE		5 - <12.5%
CAS-No.: 64742-49-0		EC No.: 265-151-9
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R65. Xi;R38. F;R11. N;R51/53. R67.	
BUTANONE		5 - 10%
CAS-No.: 78-93-3		EC No.: 201-159-0
Classification (EC 1272/2008) Flam. Liq. 2 - H225 EUH066 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R66 R67	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition Comments

Adhesive based on synthetic rubbers and resins in highly flammable liquids.

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures****General information**

In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Immediately rinse mouth and drink plenty of water (200-300 ml). Give milk instead of water if readily available. DO NOT induce vomiting. Get medical attention immediately.

Skin contact

Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

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

Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion

May cause stomach pain or vomiting.

Skin contact

Skin irritation.

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Eye contact

May cause temporary eye irritation.

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Foam. Dry chemicals, sand, dolomite etc. Carbon dioxide (CO₂).

Unsuitable extinguishing media

DO NOT use water if avoidable.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

HIGHLY FLAMMABLE!

Specific hazards

When heated and in case of fire, toxic vapours/gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Wear self contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing. Follow precautions for safe handling described in this safety data sheet.

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Collect in containers and seal securely.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Provide good ventilation. Avoid inhalation of vapours.

7.2. Conditions for safe storage, including any incompatibilities

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place.

Storage Class

Flammable liquid storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description

Gunnable sealant / adhesive.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
BUTANONE	WEL	200 ppm(Sk)	600 mg/m ³ (Sk)	300 ppm(Sk)	899 mg/m ³ (Sk)	

WEL = Workplace Exposure Limit.

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Ingredient Comments

DNEL values given for CAS 64742-49-0

DNEL

Consumer	Dermal	Long Term	699	mg/kg/day
Consumer	Inhalation.	Long Term	608	mg/m3
Consumer	Oral	Long Term	699	mg/kg/day
Professional	Dermal	Long Term	773	mg/kg/day
Professional	Inhalation.	Long Term	2035	mg/m3

8.2. Exposure controls

Protective equipment



Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

In case of inadequate ventilation use suitable respirator. Gas mask filter A in case of long or strong exposure.

Hand protection

Use protective gloves. Butyl rubber or polyvinyl acetate. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Wear approved safety goggles.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Environmental Exposure Controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Paste.
Colour	Buff.
Odour	Ketonic.
Solubility	Insoluble in water
Initial boiling point and boiling range	63 - 120
Melting point (°C)	No data available.
Relative density	1.26 @ 20°C
Vapour density (air=1)	No data available.
Vapour pressure	No data available.
Evaporation rate	Not applicable.
Evaporation Factor	Not applicable.
pH-Value, Conc. Solution	Not applicable.
Viscosity	2000 Ps@ 20°C
Solubility Value (G/100G H ₂ O@20°C)	Not applicable.
Decomposition temperature (°C)	No data available.
Odour Threshold, Lower	No data available.
Odour Threshold, Upper	No data available.
Flash point	- 26 (Closed cup)
Auto Ignition Temperature (°C)	No data available.
Flammability Limit - Lower(%)	No data available.
Flammability Limit - Upper(%)	No data available.
Partition Coefficient (N-Octanol/Water)	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

9.2. Other information

Not known.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong reducing agents.

10.6. Hazardous decomposition products

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50

CAS 64742-49-0: >2000 Butanone: 3400 mg/kg (oral rat)

Toxic Dose 2 - LD 50 CAS 64742-49-0: >2000 mg/kg (dermal-rbt)

Toxic Conc. - LC 50

CAS 64742-49-0: >5 mg/l/4h (inh-rat)

Toxicological information

The product has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.

Acute toxicity:

Based on available data the classification criteria are not met.

Skin Corrosion/Irritation:

Irritating.

Serious eye damage/irritation:

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation:

Based on available data the classification criteria are not met.

Germ cell mutagenicity:

Does not contain any substances known to be mutagenic.

Carcinogenicity:

Does not contain any substances known to be carcinogenic.

Reproductive Toxicity:

Does not contain any substances known to be toxic to reproduction.

Aspiration hazard:

Based on available data the classification criteria are not met.

Inhalation

Solvent vapours are hazardous and may cause nausea, fatigue, dizziness and headaches. There may be a feeling of tightness in the chest with shortness of breath.

Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact

Irritating to skin.

Eye contact

May cause temporary eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment. The product has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/ EC and classified for ecotoxicological hazards accordingly.

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l Butanone: 3200 - 5600

Acute Toxicity - Fish

LC50 96 hours CAS 64742-49-0: 9.77 mg/l Onchorhynchus mykiss (Rainbow trout)

EC 50, 48 Hrs, Daphnia, mg/l CAS 64742-49-0: 17.06 Butanone: 7060

12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient Not applicable.

12.4. Mobility in soil

Mobility:

The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

Waste Class

H3A(i) - Highly flammable

H4 - Irritant

H14 - Ecotoxic

Recommended EWC Code 08 04 09*

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 1133

UN No. (IMDG) 1133

UN No. (ICAO) 1133

14.2. UN proper shipping name

Proper Shipping Name ADHESIVES containing flammable liquid.

14.3. Transport hazard class(es)

ADR/RID/ADN Class 3
 ADR/RID/ADN Class Class 3: Flammable liquids.
 IMDG Class 3
 ICAO Class/Division 3
 Transport Labels

**14.4. Packing group**

ADR/RID/ADN 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
 Emergency Action Code 3YE
 Hazard No. (ADR) 33 Highly flammable liquid (flash-point below 23°C).
 Tunnel Restriction Code (E)

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

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References
 Chemicals (Hazard Information & Packaging) Regulations.
 Statutory Instruments
 Control of Substances Hazardous to Health.
 Guidance Notes
 Workplace Exposure Limits EH40.
 EU Legislation
 Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) 1907/2006 REACH. Regulation (EC) 1272/2008 CLP.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments
 General review New format as required by REACH Annex II
 Revision Date 30/11/12
 Supersedes date 16/05/11
 SDS No. 10372

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Risk Phrases In Full

R11	Highly flammable
R12	Extremely flammable.
R36	Irritating to eyes.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Hazard Statements In Full

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H224	Extremely flammable liquid and vapour.
H412	Harmful to aquatic life with long lasting effects.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
H411	Toxic to aquatic life with long lasting effects.

Disclaimer

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 a 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.