

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

1.1 Product identifier

Trade name: Airtac 2

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

General use: Temporary spray adhesive
For industrial purposes only

1.3 Details of the supplier of the safety data sheet

Company name: AIRTECH EUROPE SARL

Street/POB-No.: Z.I. Haneboesch

Postal Code, city: 4562 Differdange
Luxemburg

WWW: www.airtech.lu

E-mail: sales@airtech.lu

Telephone: +352-582282-1

Telefax: +352-584935

Dept. responsible for information:

Telephone: +352-582282-1, E-mail: sales@airtech.lu

1.4 Emergency telephone number

GIZ-Nord, Germany Telephone: +49 (0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Aerosol 1; H222; H229 Extremely flammable aerosol.
Eye Irrit. 2; H319 Causes serious eye irritation.
Repr. 2; H361f Suspected of damaging fertility.
STOT SE 3; H336 May cause drowsiness or dizziness.
STOT RE 2; H373 May cause damage to organs through prolonged or repeated exposure.
(EUH066) Repeated exposure may cause skin dryness or cracking.
Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or 1999/45/EC

Repr. Cat. 3; R62 Possible risk of impaired fertility.
F+; R12 Extremely flammable.
Xn; R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Xi; R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
N; R51-53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (CLP)



Signal word:

Danger

Airtac 2

Material number Airtac2

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Hazard statements:	H222	Extremely flammable aerosol.
	H229	Pressurised container: May burst if heated.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
	H361f	Suspected of damaging fertility.
	H373	May cause damage to organs through prolonged or repeated exposure.
	H411	Toxic to aquatic life with long lasting effects.
Safety precautions:	EUH066	Repeated exposure may cause skin dryness or cracking.
	P102	Keep out of reach of children.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P211	Do not spray on an open flame or other ignition source.
	P251	Do not pierce or burn, even after use.
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501	Dispose of contents/container to hazardous or special waste collection point.	

Labelling (67/548/EEC or 1999/45/EC)**F+****Xn****N**

extremely flammable harmful dangerous for the environment

R phrase(s):	R 12	Extremely flammable.
	R 36	Irritating to eyes.
	R 48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
	R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R 62	Possible risk of impaired fertility.
	R 66	Repeated exposure may cause skin dryness or cracking.
S phrase(s):	R 67	Vapours may cause drowsiness and dizziness.
	S (2)	Keep out of the reach of children.
	S 16	Keep away from sources of ignition. - No smoking.
	S 23	Do not breathe gas/fumes/vapour/spray.
	S 36/37	Wear suitable protective clothing and gloves.
	S 51	Use only in well-ventilated areas.
S 61	Avoid release to the environment. Refer to special instructions/Safety data sheets.	

Special labelling

Text for labelling: Contains Acetone and n-Hexane.

2.3 Other hazards

Do not expose to high temperature. Danger of bursting and explosion.
In use, may form flammable/explosive vapour-air mixture.
Higher doses may have a narcotic effect.

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EINECS 203-523-4 CAS 107-83-5	Hexane, mixture of isomers (containing < 5 % n-hexane (203-777-6))	< 16 %	EU: F; R11. Xi; R38. N; R51-53. Xn; R65. R67. CLP: Flam. Liq. 2; H225. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411.
REACH 01-2119471330-49-xxxx EINECS 200-662-2 CAS 67-64-1	Acetone	20 - 30 %	EU: F; R11. Xi; R36. R66. R67. CLP: Flam. Liq. 2; H225. Eye Irrit. 2; H319. STOT SE 3; H336. (EUH066).
EINECS 200-827-9 CAS 74-98-6	Propane	15 - 25 %	EU: F+; R12. CLP: Flam. Gas 1; H220.
REACH 01-2119463273-41-xxxx EINECS 203-806-2 CAS 110-82-7	Cyclohexane	10 - 20 %	EU: F; R11. Xi; R38. N; R50-53. Xn; R65. R67. CLP: Flam. Liq. 2; H225. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Acute 1; H400. Aquatic Chronic 1; H410.
EINECS 203-692-4 CAS 109-66-0	n-Pentane	< 2 %	EU: F+; R12. N; R51-53. Xn; R65. R66. R67. CLP: Flam. Liq. 2; H225. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. (EUH066).
EINECS 203-777-6 CAS 110-54-3	n-Hexane	< 5 %	EU: F; R11. Xn; R48/20. Xi; R38. Repr. Cat. 3; R62. N; R51-53. Xn; R65. R67. CLP: Flam. Liq. 2; H225. Skin Irrit. 2; H315. Repr. 2; H361f. STOT SE 3; H336. STOT RE 2; H373. Asp. Tox. 1; H304. Aquatic Chronic 2; H411.

Additional information: The maximum workplace exposure limits are, where necessary, listed in section 8.
Contains Limestone.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	If you feel unwell, seek medical advice (show the label where possible).
In case of inhalation:	Provide fresh air. Put victim at rest and keep warm. Seek medical treatment in case of troubles.
In case of skin contact:	Change contaminated clothing. Remove residues with soap and water. Do not use solvents or thinners. Subsequently consult physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

4.2 Most important symptoms and effects, both acute and delayed

After resorption: CNS disorders, unconsciousness, pain.

Reaction time and coordination may be impaired.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Sand, carbon dioxide, extinguishing powder

Extinguishing media which must not be used for safety reasons:

Water

5.2 Special hazards arising from the substance or mixture

Extremely flammable aerosol. Vapours form potentially explosive mixtures with air.

Heavier than air, they proceed at floor level and may backflash over great distances when ignited.

In case of fire may be liberated: aldehydes, ketone, carbon monoxide and carbon dioxide, hydrocarbons.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Hazchem-Code: -

Container under pressure. Do not expose to high temperature. Danger of bursting and explosion.

Cool endangered containers with water spray and, if possible, remove from danger zone.

Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Keep away from unprotected people. Evacuate area.

Do not breathe vapour/aerosol. Avoid contact with skin and eyes.

Wear protective equipment.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may backflash over great distances when ignited.

Provide adequate ventilation. Use only spark proof tools.

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder.

Store in special closed containers and dispose of according to ordinance.

Additional information:

Take precautionary measures against static discharges.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Avoid contact with skin and eyes.

Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects.

Provide good ventilation and/or an exhaust system in the work area.

Precautions against fire and explosion:

Do not heat spray cans over 50 °C.

Forms explosive mixtures with air. Use only spark proof tools.

Keep away from sources of ignition. - No smoking.

Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep in a cool, well-ventilated place. Keep container dry.

Protect from heat and direct sunlight.

Hints on joint storage:

Do not store together with: Oxidizing agents, acids

Storage class:

2B = Aerosols

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-64-1	Acetone	Europe: IOELV: TWA	1210 mg/m ³ ; 500 ppm
		Great Britain: WEL-STEL	3620 mg/m ³ ; 1500 ppm
		Great Britain: WEL-TWA	1210 mg/m ³ ; 500 ppm
		Ireland: 8 hours	1210 mg/m ³ ; 500 ppm IOELV
74-98-6	Propane	Ireland: 8 hours	1000 ppm
110-82-7	Cyclohexane	Europe: IOELV: TWA	700 mg/m ³ ; 200 ppm
		Great Britain: WEL-STEL	1050 mg/m ³ ; 300 ppm
		Great Britain: WEL-TWA	350 mg/m ³ ; 100 ppm
		Ireland: 8 hours	700 mg/m ³ ; 200 ppm
1317-65-3	Limestone	Great Britain: WEL-TWA	10 mg/m ³ (inhalable fraction)
		Great Britain: WEL-TWA	4 mg/m ³ (respirable fraction)
		Ireland: 8 hours	10 mg/m ³ (inhalable fraction)
		Ireland: 8 hours	4 mg/m ³ (respirable fraction)
109-66-0	n-Pentane	Europe: IOELV: TWA	3000 mg/m ³ ; 1000 ppm
		Great Britain: WEL-TWA	1800 mg/m ³ ; 600 ppm
		Ireland: 15 minutes	2250 mg/m ³ ; 750 ppm
		Ireland: 8 hours	3000 mg/m ³ ; 1000 ppm
110-54-3	n-Hexane	Europe: IOELV: TWA	72 mg/m ³ ; 20 ppm
		Great Britain: WEL-TWA	72 mg/m ³ ; 20 ppm
		Ireland: 8 hours	72 mg/m ³ ; 20 ppm

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

Take precautionary measures against static discharges.

Personal protection equipment**Occupational exposure controls**

Respiratory protection:	Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type AX (= against vapours of low boiling organic substances) according to EN 14387. The following applies to Propane in general: If the concentration is exceeded, closed-circuit breathing apparatus must be used!
Hand protection:	Protective gloves according to EN 374. Glove material: nitrile rubber-Breakthrough time: >480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to EN 166.
Body protection:	Protective clothing, solvent-resistant.
General protection and hygiene measures:	Separate storage of work clothes. Avoid contact with skin and eyes. Do not breathe vapour/aerosol. When using do not eat, drink or smoke. Wash hands before breaks and after work. Take off immediately all contaminated clothing. Keep away from food, drink and animal feedingstuffs.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance:	Physical state: Aerosol Colour: white up to brownish
Odour:	sweet, fruity
Odour threshold:	no data available
pH value:	no data available
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	no data available
Flash point/flash point range:	-45.6 °C (c.c.)
Evaporation rate:	no data available
Flammability:	no data available
Explosive properties:	no data available
Explosion limits:	LEL (Lower Explosion Limit): 1.10 Vol-% UEL (Upper Explosive Limit): 12.80 Vol-%
Vapour pressure:	no data available
Vapour density:	no data available
Density:	at 20 °C: 0.726 g/mL
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	no data available
Thermal decomposition:	no data available
Viscosity, dynamic:	no data available
Explosive properties:	no data available
Oxidizing characteristics:	no data available

9.2 Other information

Solid content:	
Additional information:	Relative vapour density at 20 °C (air=1): 2,97 Evaporation rate (ether = 1): 1,90

SECTION 10: Stability and reactivity

10.1 Reactivity

Extremely flammable aerosol.
Vapours can form explosive mixtures with air.

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Container under pressure. Do not expose to high temperature. Danger of bursting and explosion.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.
Protect from direct exposure to sunlight and temperatures exceeding 50 °C.

10.5 Incompatible materials

Oxidising agent, acids

10.6 Hazardous decomposition products

In case of fire may be liberated: aldehydes, ketone, carbon monoxide and carbon dioxide, hydrocarbons

Thermal decomposition: no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LC50 Rat, inhalative, vapour: > 18 mg/L/4h (n-Pentane)

LC50 Rat, inhalative, dust: 3 mg/L/4h (Limestone)

Toxicological effects:

Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix calculated (oral): >5000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix calculated (dermal): >5000 mg/kg

Acute toxicity (inhalative): Lack of data. ATEmix calculated (inhalative): >50 mg/L

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
on basis of test data (T-1057)

Eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Repr. 2; H361f = Suspected of damaging fertility.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): STOT SE 3; H336 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): STOT RE 2; H373 = May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Lack of data.

Not required: The product is a foam aerosol.

Carcinogenic, germ cell mutagen and reproduction effects:

Repr. Cat. 3 - Possible risk of impaired fertility.

SymptomsEffects resulting from repeated or prolonged exposure:
liver damage, damage of kidneys.

Peripheral nervous disorders (neuralgias, "pins and needles") with considerable pain, tremors and amyosthenia.

In case of inhalation:

Narcotic effect in case of higher doses or prolonged exposure. May be harmful if inhaled. May cause respiratory irritation. May cause damage to organs.

Inhalation of the product may cause giddiness, mild dizziness or headache. hoarseness, cough

In case of ingestion: pain, vomiting, diarrhoea, nausea. May cause damage to organs.

After contact with skin: Upon direct contact with skin may cause itching and redness.

After eye contact: Eye contact may cause irritation, redness, tearing or blurry vision.

SECTION 12: Ecological information**12.1 Toxicity**

Aquatic toxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Further details: no data available

12.3 Bioaccumulative potentialPartition coefficient: n-octanol/water:
no data available**12.4 Mobility in soil**

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

General information: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**Waste key number: 08 04 09* = Waste adhesives and sealants containing organic solvents or other dangerous substances
MFSU = manufacture, formulation, supply and use
* = Evidence for disposal must be provided.Recommendation: 16 05 04 = Dangerous materials containing gases in pressure containers/Aerosol
Do not open with force or incinerate, even when empty.
Dispose of waste according to applicable legislation. Do not dispose of with household waste. This material and its container must be disposed of as hazardous waste.

Contaminated packaging

Waste key number: 15 01 10 = packaging containing residues of or contaminated by dangerous substances
Recommendation: Dispose of waste according to applicable legislation.

SECTION 14: Transport information**14.1 UN number**

ADR/RID, IMDG, IATA: 1950

14.2 UN proper shipping name

ADR/RID, IMDG: UN 1950, AEROSOLS
IATA: UN 1950, AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR/RID: Class 2, Code: 5F
IMDG: Class 2, Subrisk -, see SP63
IATA: Class 2.1

14.4 Packing group

ADR/RID, IATA: not applicable
IMDG: -

14.5 Environmental hazards

Marine pollutant: Yes

14.6 Special precautions for user**Land transport (ADR/RID)**

Warning board: ADR: UN number 1950
RID: Kemmler-number 23, UN number 1950
Hazard label: 2.1
Special provisions: 190 327 344 625
Limited quantities: 1 L
EQ: E0
Contaminated packaging - Instructions: P207 LP02
Contaminated packaging - Special provisions: PP87 RR6 L2
Special provisions for packing together: MP9
Tunnel restriction code: D



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Sea transport (IMDG)

EmS:	F-D, S-U
Special provisions:	63, 190, 277, 327, 344, 959
Limited quantities:	See SP277
EQ:	E0
Contaminated packaging - Instructions:	P207, LP02
Contaminated packaging - Provisions:	PP87, L2
IBC - Instructions:	-
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	-
Tank instructions - Provisions:	-
Stowage and segregation:	For AEROSOLS with a maximum capacity of 1 l: Category A. Segregation as for class 9 but "Away from" sources of heat and "separated from" class 1 except division 1.4. For AEROSOLS with a capacity above 1 l: Category B. Segregation as for the appropriate sub-division of class 2. For WASTE AEROSOLS: Category C. Clear of living quarters and away from sources of heat. Segregation as for the appropriate sub-division of class 2.
Properties and observations:	-
Segregation group:	none

Air transport (IATA)

Hazard:	Flamm. gas
EQ:	E0
Passenger Ltd.Qty.:	Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger:	Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo:	Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisioning:	A145 A167 A802
ERG:	10L

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations - Great Britain**

Hazchem-Code: -

National regulations - EC member statesVolatile organic compounds (VOC):
< 69 % by weight = 542 g/L

Labelling of packaging with <= 125mL content



Signal word:

Danger

Hazard statements:

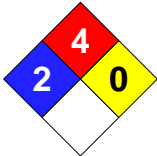
H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.
 H336 May cause drowsiness or dizziness.
 H361f Suspected of damaging fertility.
 H373 May cause damage to organs through prolonged or repeated exposure.
 EUH066 Repeated exposure may cause skin dryness or cracking.

Safety precautions:

P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

National regulations - USA

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 4 (Severe)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate)

Flammability: 4 (Severe)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	0
	X

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H220 = Extremely flammable gas.
 H222 = Extremely flammable aerosol.
 H225 = Highly flammable liquid and vapour.
 H229 = Pressurised container: May burst if heated.
 H304 = May be fatal if swallowed and enters airways.
 H315 = Causes skin irritation.
 H319 = Causes serious eye irritation.
 H336 = May cause drowsiness or dizziness.
 H361f = Suspected of damaging fertility.
 H373 = May cause damage to organs through prolonged or repeated exposure.
 H400 = Very toxic to aquatic life.
 H410 = Very toxic to aquatic life with long lasting effects.
 H411 = Toxic to aquatic life with long lasting effects.
 EUH066 = Repeated exposure may cause skin dryness or cracking.

Wording of the R-phrases under section 2 and 3:

R 11 = Highly flammable.

R 12 = Extremely flammable.

R 36 = Irritating to eyes.

R 38 = Irritating to skin.

R 48/20 = Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R 50/53 = Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 51/53 = Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 62 = Possible risk of impaired fertility.

R 65 = Harmful: may cause lung damage if swallowed.

R 66 = Repeated exposure may cause skin dryness or cracking.

R 67 = Vapours may cause drowsiness and dizziness.

Reason of change: Changes in section 2: classification, labelling
Changes in section 3: Composition / information on ingredients
General revision

Date of first version: 6/9/2006

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

This data sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, and which additional precautions may be necessary. All health and safety information contained in this data sheet should be provided to your employees and customers. It is your responsibility to develop appropriate workplace instructions and training programmes for employees.

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