

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 International, Inc. 5700 Skylab Road Huntington Beach, CA 92647 E-mail: airtech@airtechintl.com Website: www.airtechonline.com Telephone: +1 714.899.8100 Dept. responsible for information: Telephone: +1 714.899.8100 E-mail: airtech@airtechintl.com	Airtech Europe Sarl Zone industrielle Haneboesch L-4562 Differdange Luxembourg Website: www.airtech.lu Telephone: +352 582.282 Dept. responsible for information: Telephone: +352 582.282 E-mail: sales@airtech.lu
	Tygavac Advanced Materials Ltd. The Causeway Broadway Business Park Chadderton, Oldham OL9 9XD United Kingdom Website: www.tygavac.co.uk Telephone: +44 161.947.1610 Dept. responsible for information: Telephone: +44 161.947.1610 E-mail: sales@tygavac.co.uk	Airtech Asia Ltd. Ltd. 888 Airtech Avenue Huangtai Industrial Development Center Xiaozhan Country, Jinnan District Tianjin, China 300353 E-mail: airtechasia@airtechintl.com Website: www.airtech.asia Telephone: +86 22.8622.9800 Dept. responsible for information: Telephone: +86 22.8622.9800 E-mail: airtechasia@airtechintl.com

1.4 Emergency telephone number

CHEMTREC EMERGENCY PHONE:
Great Britain (London): +(44)-870-8200418
International: +1 703-741-5970

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 (EUH066)	May cause damage to organs through prolonged or repeated exposure. 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

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 nervous system through prolonged or repeated exposure.
	H411	Toxic to aquatic life with long lasting effects.
	EUH066	Repeated exposure may cause skin dryness or cracking.

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Precautionary statements:

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 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.
R 67	Vapours may cause drowsiness and dizziness.

S phrase(s):

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.
Restricted to professional users.

55 percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal). 56 percent of the mixture consists of ingredient(s) of unknown toxicity. (inhalative). 16 percent of the mixture consists of components of unknown hazards to the aquatic environment.

2.3 Other hazardsDo 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
EC No. 203-523-4 CAS 107-83-5	Hexane, mixture of isomers (containing < 5 % n-hexane (203-777-6))	< 16 %	DSD/DPD: 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 EC No. 200-662-2 CAS 67-64-1	Acetone	20 - 30 %	DSD/DPD: F; R11. Xi; R36. R66. R67. CLP: Flam. Liq. 2; H225. Eye Irrit. 2; H319. STOT SE 3; H336. (EUH066).
EC No. 200-827-9 CAS 74-98-6	Propane	15 - 25 %	DSD/DPD: F+; R12. CLP: Flam. Gas 1; H220.
REACH 01-2119463273-41-xxxx EC No. 203-806-2 CAS 110-82-7	Cyclohexane	10 - 20 %	DSD/DPD: 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.
EC No. 203-692-4 CAS 109-66-0	n-Pentane	< 2 %	DSD/DPD: 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).
EC No. 203-777-6 CAS 110-54-3	n-Hexane	< 5 %	DSD/DPD: 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.

Full text of H- and EUH-statements: see section 16.

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.

Following 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 unprotected people away. 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, siliceus 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
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. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

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:	Form: 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
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, kinematic:	no data available
Explosive properties:	no data available
Oxidizing characteristics:	no data available

9.2 Other information

Solid content:	19.2 - 30.4 %
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.

Symptoms

Effects 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 potential

Partition 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

Recommendation: Dispose of waste according to applicable legislation.

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

ADR/RID, IMDG, IATA-DGR:

UN 1950

14.2 UN proper shipping name

ADR/RID, IMDG: UN 1950, AEROSOLS

IATA-DGR: UN 1950, AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR/RID: Class 2, Code: 5F

IMDG: Class 2, Subrisk -, see SP63

IATA-DGR: Class 2.1

**14.4 Packing group**

ADR/RID, IATA-DGR: 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 UN 1950
RID: Kemmler-number 23, UN number UN 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

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 handling:	SW1 SW22
Segregation:	SG69
Properties and observations:	-

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: -
No data available

National regulations - EC member states

Volatile 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 nervous system through prolonged or repeated exposure.
EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary statements:	
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 fume/gas/mist/vapours/spray.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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 nervous system 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 1: General revision

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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