



SAFETY DATA SHEET

ULTIMATE CONTACT ADHESIVE 500ml AEROSOL

NON CHLORINATED, HIGH TEMPERATURE

SECTION 1; IDENTIFICATION OF THE SUBSTANCES/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	BONDSEAL ULTIMATE
Product No.	BONDSEAL 2091 500ml

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

Identified uses	Spray adhesive
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1.3. Details of the supplier of the data sheet

Company name: Chemique Adhesives Inc
3050 Matlock Drive
Kennesaw, GA 30144 USA
Tel: +1 990 451 2904
Fax: +1 990 234 4143
Email: sales@chemiqueadhesives.com

1.4. Emergency telephone number

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and chemical hazards	Extremely Flam. Aerosol - H222
Human health	Eye Irrit. 2 – H319 STOT SE 3 – H336 Skin Irrit 2 – H315 Asp Tox 1 – H304
Environmental hazards	Aquat Chron 2 – H412

The full text for all Hazard statements are displayed in Section 16.

2.2 Label Elements**Label in Accordance with (EC) No. 1272/2008**

Contains Cyclohexane, Acetone, Naphtha petroleum hydrotreated light, <0.1% Benzene, Hexane

**Signal word**

Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized 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.
H412	Harmful to aquatic life with long lasting effects

Precautionary Statements

P102	Keep out of reach of children.
P210	Keep away from heat/sparks/open flames/hot surfaces, No Smoking
P261	Avoid breathing vapour/spray.
P281	Use personal protective equipment as required
P337+313	If eye irritation persists: Get medical advice/attention.
P270	Do not eat, drink, or smoke when using this product

Supplementary precautionary statements

P273	Avoid release to the environment.
P264	Wash contaminated skin thoroughly after handling.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in Position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing
P308+313	If exposed or concerned: Get medical advice/attention.
P332+313	If skin irritation occurs: get medical advice/attention
P337+313	If eye irritation persists: get medical advice/attention
P410+412	Protect from sunlight. Do not expose to temperatures Exceeding 50°C/122°F.
P342+311	If experiencing respiratory symptoms: Call a POISON CENTRE or Doctor/physician.
P501	Dispose of contents/container in accordance with local regulations.

Supplement label information

No data available

2.3. Other hazards

Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn even after use. Do not spray on naked flame or any incandescent material – NO SMOKING.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures**

ACETONE			15-30%
CAS-No.: 67-64-1	EC No.: 200-662-2 Index No:606-001-00-8	Registration number: 01-2119471330-49	
Classification (EC 1272/2008) Flam. Liq. 2 – H225 STOT SE 3 – H336 Eye irrit. 2 – H319			
CYCLOHEXANE			15-30%
CAS- No: 110-82-7	EC No.: 203-806-2		
Classification (EC 1272/2008) Flam Liq 2 – H225 Skin Irrit 2 – H315 STOT SE 3 – H336 Asp Tox 1 – H304 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410			
NAPHTHA, PETROLEUM, HYDROTREATED LIGHT			5<15%
CAS- No: 64742-49-0	EC No.: 265-151-9		
Classification (EC 1272/2008) STOT SE 3 – H336 Asp Tox 1 – H304 Skin Irrit 2 – H315 Aquat Chron 2 – H411			
HEXANE			0.5<2%
CAS – No.: 110-54-3	EC No.: 203-777-6		
Classification (EC 1272/2008) Skin Irrit 2 – H315 Repr 2 – H361f STOT SE 3 – H336 STOT RE 2 – H373 Asp Tox 1 – H304 Aquat Chron 2 – H411 Flam Liq 2 – H225			
PETROLEUM GASES LIQUIFIED			20-40%
CAS- No.: 68476-85-7	EC No.: 270-704-2		
Classification (EC 1272/2008) Flam. Gas 1- H220			

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

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

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

Inhalation

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

DO NOT induce vomiting. Get medical attention immediately

Skin contact

Wash the skin immediately with soap and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if any discomfort continues

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling section 2.2, and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Extinguishing media

Fire can be extinguished using: foam; carbon dioxide; dry powder

5.2 Special hazards arising from the substance or mixture

Unusual fire & Explosion hazards

Aerosol cans may explode in fire.

5.3 Advice for firefighters

Wear self contained breathing apparatus

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid skin and eye contact. Ensure adequate ventilation. Avoid breathing vapours, mist or gas. Wear personal protective equipment (see section 8).

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb in vermiculite, dry sand or earth, and place into containers.

6.4 Reference to other sections

Wear protective clothing as described in section 8 of this safety data sheet.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

7.2. Conditions for safe storage, including any incompatibilities

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

7.3 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**

Name	STD	TWA – 8 Hrs		STEL – 15 Min		Notes
ACETONE	WEL	500 ppm	1210 mg/m ³	1500 ppm	3620 mg/m ³	UK EH40 – Workplace Exposure Limits
PETROLEUM GASES LIQUIFIED	WEL	1000 ppm	1250 mg/m ³	1250 ppm	2180 mg/m ³	UK EH40 – Workplace Exposure Limits
CYCLOHEXANE	WEL	200 ppm	700 mg/m ³	300 ppm	1050 mg/m ³	UK EH40 – Workplace Exposure Limits
HEXANE	WEL	20 ppm	72 mg/m ³			

WEL = Workplace exposure limit.

Derived No Effect Level (DNEL) No data available

Predicted No Effect Concentration No data available

8.2 Exposure controls

Protective equipment

Engineering measures

**Appropriate engineering controls**

Observe any occupational exposure limits for the product or ingredients. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection

Chemical splash goggles or face shield. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

Hand protection

Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Nitrile rubber.

Other skin and body protection

Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Wear protective clothing.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

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. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

(a) Appearance	Canister/Aerosol.
(b) Odour	No data available
(c) Odour Threshold	No data available
(d) pH	No data available
(e) Melting point/freezing point	No data available
(f) Initial boiling point and boiling range	No data available
(g) Flash point	Estimated at -17°C
(h) Evaporation point	No data available
(i) Flammability (solid gas)	No data available
(j) Upper/lower flammability Or explosive limits	No data available
(k) Vapour pressure	No data available
(l) Vapour density	No data available
(m) Relative density	No data available
(n) Water solubility	Slightly soluble in water
(o) Partition coefficient n-octanol/water	No data available
(p) Auto-ignition temperature	No data available
(q) Decomposition temperature	No data available
(r) Viscosity	No data available
(s) Explosive properties	No data available
(t) Oxidising properties	No data available.

9.2 Other information

No data available

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

No data available

10.2 Chemical stability

Avoid heat, sparks, and flames, stable under normal conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid heat, flames and other sources or ignition. Avoid contact with: Strong oxidising agents, Strong alkalis and Strong mineral acids.

10.5 Incompatible materials

Materials to avoid

Strong acids, strong oxidising substances and strong alkalis.

10.6 Hazardous decomposition products

No data available

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acetone****Acute Toxicity**

LD₅₀ Oral – Rat - >5,800 mg/kg

Inhalation

LD₅₀ Inhalation – Rat – 50,1000 mg/m³

Skin corrosion/irritation

Skin – Rabbit

Result: Mild skin irritaion – 24 h

(Draize Test)

Eye contact

Eyes – Rabbit

Result: Irritating to eyes – 24 hr

(Draize Test)

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.

Specific Target Organ Toxicity – Single Exposure

No data available

Specific Target Organ Toxicity – Repeated Exposure

No data available

Aspiration Hazard

No data available.

Cyclohexane**Acute Toxicity**

LD₅₀ Oral – Rat - 12,705 mg/kg

LD₅₀ Dermal – Rabbit - >2,000 mg/kg

Inhalation

LD₅₀ Inhalation – Rat – 34,000 mg/m³ - 4 h

(OECD Test Guideline 403)

Skin corrosion/irritation

Skin – Rabbit

Result: No skin irritation – 24 h

(Draize Test)

Eye contact

Eyes – Rabbit

Result: Mild irritation

(Draize Test)

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC classification.

Specific Target Organ Toxicity – Single Exposure

No data available

Specific Target Organ Toxicity – Repeated Exposure

No data available

Aspiration Hazard

No data available.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

Not regarded as dangerous to the environment. However, contamination of the aquatic or terrestrial environments should be avoided

12.1 Toxicity**Acetone**

Toxicity to fish

LC₅₀ – *Oncorhynchus mykiss* (rainbow trout) – 5.540 mg/l – 96 hr

Toxicity to daphnia and other

Aquatic invertebrates:

EC₅₀ – *Daphnia magna* (Water flea) – 8,800 mg/l – 48 hr

Cyclohexane

Toxicity to fish	LC50 – Pimpephalespromelas (Fathead minnow) – 4.53 mg/l – 96 hr (OECD Test Guideline 203)
Toxicity to daphnia and other Aquatic invertebrates:	EC50 – Daphnia magna (Water flea) – 0.9 mg/l – 48 hr (OECD Test Guideline 202)
Toxicity to algae	EC50 – Pseudokirchneriella subcapitata (Green algae) – 304mg/l – 72 h (OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability No data available

12.3 Bio accumulative potential

Does not bioaccumulate

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB Assessment

Contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION**14.1 UN Number**

UN No. (ADR/RID/ADN)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950

14.2 UN proper shipping name

Proper shipping name – AEROSOLS

14.3 Transport hazard class(es)

ADR/RID/ADN class	2.1
ADR/RID/ADN class	Class 2: Gases
ADR Label No	2.1 & 6.1
IMDG Class	3.1
ICAO Class/division	2.1
ICAO Subsidiary risk	6.1
CEFIC TEC® No	20GSF

Air Class	2.1
UK Road Class	2.1
Transport labels	L.Q.

**14.4 Packing group**

Not applicable.

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant.

No.

14.6 Special precautions for user

EMS	F-D, S-U
Tunnel restriction code	(D)

14.7 transport in bulk according to Annex II of MARPOL73/78 and the IBC code.**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Labelling according to Regulation (EC) No 1272/2008

The chemicals (Hazard information and packaging for supply) regulations 2009 (S.I 2009 No. 716). Control of substances hazardous to health.

Approved code of practice.

Guidance notes

Workplace exposure limits EH40.

15.1.1 EU-Regulations**EU-REACH (1907/2006) – Candidate List of Substances of Very High Concern (SVHC) for Authorisation in accordance with Article 59 .**

This product does not contain candidate substances of very high concern at a concentrations $\geq 0.1\%$ (Regulation (EC) No 1907/2006 (REACH), Article 59.

EU-REACH (1907/2006)-Annex XVII – Substances subject to restrictions.

This product contains one or more substance(s) subject to restriction (Regulation (EC) No 1907/2006 (REACH), Annex XVII)

Chemical Name	CAS No	Restrictions on use
Cyclohexane	110-82-7	57

If supplied in neoprene contact adhesives to general public above 0.1% CAS 110-87-7 must be labelled as per restriction. Must not be supplied to general public in contact adhesive above 0.1% in packages greater than 350gm.

EU-REACH (1907/2006) – Annex XIV – List of substances subject to Authorisation

This product does not contain substances subject to Authorisation (Regulation (EC) No 1907/2006 (REACH) Annex XIV)

15.1.2 National Regulations

No additional information available.

SECTION 16: OTHER INFORMATION**General information**

This product should be used as directed. For further information consult the product data sheet or contact technical services.

Information sources

This safety data sheet was compiled using current safety information supplied by distributor raw materials.

Revision comments

This safety data sheet supersedes all previous issues and users are cautioned to ensure that it is current. Destroy all previous data sheets and if in doubt contact AFT Aerosols Ltd.

Hazard statements in full

H220	Extremely flammable gas
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour
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

Abbreviations

Eye Irrit 2	Eye Irritant Category 2
Skin Irrit 2	Skin Irritant Category 2
Flam Liq 2	Flammable liquid Category 2
Flam Gas 1	Flammable Gas Category 1
Asp Tox 1	Aspiration Toxicity Category 1
Repr 2	Reproductive Toxicity Category 2
Aquatic Acute 1	Acute Aquatic Toxicity Category 1
Aquatic Chronic 1/2	Chronic Aquatic Toxicity Category 1/2
STOT SE 2/3	Specific Target Organ Toxicity Single Exposure Category 2/3
STOT RE 2	Specific Target Organ Toxicity Repeated Exposure Category 2

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DISCLAIMER

The Information provided herein, especially recommendations for the usage and the application of this products, is provided in good faith, and no liability on the part of Chemique Adhesives Inc. is stated or implied. No employee of Chemique Adhesives Inc. has the authority to waive or alter in any way the content of this document.

Due to different materials used, as well as to varying working conditions, production techniques, and the requirements of the end users, all of which are beyond our control, we strongly recommend that thorough and extensive trials are carried out in order to test the suitability of our products with regard to the required processes and applications. This should also include an ageing test which should be applied to all substrates used.

It is also the responsibility of the purchaser and end user of this product to ensure that all appropriate actions necessary for the protection of the environment, and for the health and safety of their employees are observed. This datasheet replaces all former versions