



## SAFETY DATA SHEET (Aerosol) HD Impact Adhesive

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

#### 1.1. Product identifier

**Product name** (Aerosol) HD Impact Adhesive

**Product number** BI

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

**Identified uses** Car maintenance product. - Adhesive.

**Uses advised against** For professional use only. This product is not recommended for any industrial, professional or consumer use other than the Identified uses above.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** Autosmart International Ltd  
Lynn Lane,  
Shenstone, nr Lichfield  
Staffordshire. WS14 0DH  
England  
www.autosmartinternational.com  
Tel: +44 (0) 1543 481616 (09:00 - 17:00)  
Fax: +44 (0) 1543 481549 (09:00 - 17:00)  
info@autosmartinternational.com

**Contact person** Mr. Russell Butler

#### 1.4. Emergency telephone number

**Emergency telephone** Mob: +44 (0) 7808 971321 (24hrs)  
Tel: +44 (0) 1543 481616 (09:00 - 17:00)  
Fax: +44 (0) 1543 481549 (09:00 - 17:00)

If you urgently need medical help or advice but it's not a life-threatening situation, call 111 free from any phone to speak to an NHS adviser. The 24-hour NHS 111 service can give you healthcare advice or direct you to the local service that can help you best.

The NHS 111 service will also be available via the harmonised European number for medical advice 116 117

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

**Physical hazards** Aerosol 1 - H222, H229

**Health hazards** Carc. 2 - H351

**Environmental hazards** Not Classified

**(Aerosol) HD Impact Adhesive**

**Classification (67/548/EEC or 1999/45/EC)** Carc. Cat. 3;R40. F+;R12.

**Physicochemical**

Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable and may ignite in the air at normal temperature and pressure. Explosive vapour/air mixtures may be spontaneously formed. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

**2.2. Label elements****Pictogram****Signal word**

Danger

**Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated  
H351 Suspected of causing cancer.

**Precautionary statements**

P102 Keep out of reach of children.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
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.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Contains**

DICHLOROMETHANE

**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**

<b>DICHLOROMETHANE</b>		<b>30-60%</b>
CAS number: 75-09-2	EC number: 200-838-9	REACH registration number: 01-2119480404-41-xxxx
<b>Classification</b> Carc. 2 - H351	<b>Classification (67/548/EEC or 1999/45/EC)</b> Carc. Cat. 3;R40	
<b>PROPANE</b>		<b>20-30%</b>
CAS number: 74-98-6	EC number: 200-827-9	
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas	<b>Classification (67/548/EEC or 1999/45/EC)</b> F+;R12	

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<b>BUTANE</b> <span style="float: right;"><b>20-30%</b></span>	
CAS number: 106-97-8	EC number: 203-448-7
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas	<b>Classification (67/548/EEC or 1999/45/EC)</b> F+;R12
<b>ISOBUTANE</b> <span style="float: right;"><b>5-10%</b></span>	
CAS number: 75-28-5	EC number: 200-857-2
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas	<b>Classification (67/548/EEC or 1999/45/EC)</b> F+;R12

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

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

<b>General information</b>	Keep affected person away from heat, sparks and flames.
<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	Remove affected person from source of contamination. Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.
<b>Ingestion</b>	May cause discomfort if swallowed. Dizziness. Nausea, vomiting. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	May cause temporary eye irritation. Prolonged contact may cause redness and/or tearing.

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

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

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**Suitable extinguishing media** Extinguish with the following media: Powder. Alcohol-resistant foam. Carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc. Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved.

**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** Containers can burst violently or explode when heated, due to excessive pressure build-up. Fire creates: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Nitrous gases (NO<sub>x</sub>). Containers can burst violently or explode when heated, due to excessive pressure build-up. The product is highly flammable.

**Hazardous combustion products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Ventilate closed spaces before entering them. Move containers from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours. Do not scatter spilled material with more water than needed to fight the fire. Risk of re-ignition after fire has been extinguished. Control run-off water by containing and keeping it out of sewers and watercourses. Containers close to fire should be removed or cooled with water. Be aware of danger of explosion. Fight advanced or massive fires from safe distance or protected location.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** For personal protection, see Section 8.

### 6.2. Environmental precautions

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

### 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. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

### 6.4. Reference to other sections

**Reference to other sections** See Section 11 for additional information on health hazards. For personal protection, see Section 8. For waste disposal, see Section 13.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

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**Usage precautions** Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Read and follow manufacturer's recommendations. During application and drying, solvent vapours will be emitted. Vapours may accumulate on the floor and in low-lying areas. Eliminate all sources of ignition. Static electricity and formation of sparks must be prevented.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Keep away from heat, sparks and open flame. Pressurised container: Must not be exposed to temperatures above 50°C. Store in closed original container at temperatures between 5°C and 30°C. Keep container dry.

**Storage class** Flammable compressed gas 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

##### DICHLOROMETHANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 300 ppm 1060 mg/m<sup>3</sup>

Sk

##### PROPANE

Long-term exposure limit (8-hour TWA): Asphyxiating Asphyxiating. Asphyxiating.

Short-term exposure limit (15-minute): Asphyxiating Asphyxiating. Asphyxiating.

##### BUTANE

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m<sup>3</sup>

##### ISOBUTANE

Long-term exposure limit (8-hour TWA): WEL 800 ppm

Short-term exposure limit (15-minute): WEL 800 ppm

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

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<b>Hand protection</b>	Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC). It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
<b>Hygiene measures</b>	Provide eyewash station. Do not smoke in work area. When using do not eat, drink or smoke. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated.
<b>Respiratory protection</b>	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Use chemical cartridge protection with appropriate cartridge. If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid. Liquid.
<b>Colour</b>	Light brown.
<b>Odour</b>	Strong. Solvent.
<b>Odour threshold</b>	Not available. Not available.
<b>pH</b>	Not applicable. Not applicable.
<b>Melting point</b>	~ 0°C
<b>Initial boiling point and range</b>	~100°C @ 760 mm Hg
<b>Flash point</b>	< -20°C CC (Closed cup).
<b>Evaporation rate</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 1.8 % Upper flammable/explosive limit: 9.5 %
<b>Vapour pressure</b>	590 - 1760 kPa @ °C
<b>Vapour density</b>	1.5 - 2.1
<b>Relative density</b>	1.000 @ (20°C)°C
<b>Solubility(ies)</b>	Soluble in the following materials: Hydrocarbons. Immiscible with water.
<b>Partition coefficient</b>	: 2.3 - 2.8
<b>Auto-ignition temperature</b>	365°C
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not determined.
<b>Oxidising properties</b>	Not applicable.
<b>Comments</b>	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

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### 9.2. Other information

**Volatile organic compound** This product contains a maximum VOC content of 672.3 g/litre.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended. Avoid the following conditions: Heat, sparks, flames. Shocks and physical damage.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not applicable. Will not polymerise.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid exposing aerosol containers to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.

### 10.5. Incompatible materials

**Materials to avoid** Strong alkalis. Strong acids. Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrous gases (NO<sub>x</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Skin corrosion/irritation

**Human skin model test** Scientifically unjustified.

**Extreme pH** Scientifically unjustified.

#### **General information**

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

#### **Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea. Vapour may affect central nervous system. Symptoms following overexposure may include the following: Headache. Nausea, vomiting. Intoxication. May cause discomfort. Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting. Vapour may irritate respiratory system/lungs.

#### **Ingestion**

May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach. May cause discomfort if swallowed. No harmful effects expected from quantities likely to be ingested by accident.

#### **Skin contact**

May cause defatting of the skin but is not an irritant.

#### **Eye contact**

Vapour or spray in the eyes may cause irritation and smarting.

#### **Acute and chronic health hazards**

Because of the product's quantity and composition, the health hazard is regarded as low.

#### **Route of entry**

Skin absorption Inhalation Ingestion. Skin and/or eye contact

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**Medical symptoms** No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.

**Medical considerations** Skin disorders and allergies.

**Toxicological information on ingredients.****DICHLOROMETHANE**

**Other health effects** Carcinogen Category 3.

**Acute and chronic health hazards** Known or suspected carcinogen for humans.

**Route of entry** Skin and/or eye contact Skin absorption

**Target organs** Central nervous system Liver Respiratory system, lungs

**PROPANE**

**Toxicological effects** No data recorded.

**BUTANE**

**Toxicological effects** No data recorded.

**SECTION 12: Ecological Information**

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

**Ecological information on ingredients.****PROPANE**

**Ecotoxicity** The product is not expected to be hazardous to the environment.

**BUTANE**

**Ecotoxicity** The product is not expected to be hazardous to the environment.

**12.1. Toxicity**

**Acute toxicity - fish** Not determined.

**Acute toxicity - aquatic invertebrates** Not determined.

**Acute toxicity - aquatic plants** Not determined.

**Acute toxicity - microorganisms** Not determined.

**Acute toxicity - terrestrial** Not determined.

**12.2. Persistence and degradability**

**Persistence and degradability** Volatile substances are degraded in the atmosphere within a few days.

**Ecological information on ingredients.**



**(Aerosol) HD Impact Adhesive****PROPANE****Persistence and degradability**

Volatile substances are degraded in the atmosphere within a few days.

**BUTANE****Persistence and degradability**

Volatile substances are degraded in the atmosphere within a few days.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

**Partition coefficient** : 2.3 - 2.8

**Ecological information on ingredients.****PROPANE**

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

**BUTANE**

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

**12.4. Mobility in soil**

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. The product is insoluble in water.

**Ecological information on ingredients.****PROPANE**

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

**BUTANE**

**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.

**12.6. Other adverse effects**

**Other adverse effects** Not applicable.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**General information** Do not puncture or incinerate, even when empty. Empty aerosols should be recycled where facilities exist. Full or part full aerosols should be disposed of as hazardous waste in accordance with local authority requirements.

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**Disposal methods** Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Avoid the spillage or runoff entering drains, sewers or watercourses. Packaging: Reuse or recycle products wherever possible.

### SECTION 14: Transport information

#### 14.1. UN number

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

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS, flammable
Proper shipping name (IMDG)	AEROSOLS, flammable
Proper shipping name (ICAO)	AEROSOLS, flammable
Proper shipping name (ADN)	AEROSOLS, flammable

#### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1

#### Transport labels



#### 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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### SECTION 15: Regulatory information

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

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**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).  
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).

**Water hazard classification** WGK 1

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

**General information** Only trained personnel should use this material.

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

**Issued by** Prepared by Autosmart International Ltd, Lynn Lane, Shenstone, Lichfield, Staffordshire, WS14 0DH, Great Britain.  
www.autosmartinternational.com  
rbutler@autosmart.co.uk  
Tel +44 (0)1543 481616

**Revision date** 24/09/2015

**Revision** 4

**Supersedes date** 14/05/2015

**SDS number** 10957

**SDS status** Approved.

**Risk phrases in full** R11 Highly flammable.  
R12 Extremely flammable.  
R36 Irritating to eyes.  
R40 Limited evidence of a carcinogenic effect.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.

**Hazard statements in full** H220 Extremely flammable gas.  
H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated  
H351 Suspected of causing cancer.

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 any 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.