



SAFETY DATA SHEET
(Aerosol) H.D.I.A.

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	(Aerosol) H.D.I.A.
PRODUCT NO.	BI
APPLICATION	Glue
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2 HAZARDS IDENTIFICATION

Extremely flammable. Limited evidence of a carcinogenic effect.

CLASSIFICATION Carc. Cat. 3;R40. F+;R12.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
ACETONE	200-662-2	67-64-1	5-10%	F;R11 Xi;R36 R66 R67
BUTANE	203-448-7	106-97-8	10-30%	F+;R12
DICHLOROMETHANE	200-838-9	75-09-2	30-60%	Carc. Cat. 3;R40
PROPANE	200-827-9	74-98-6	10-30%	F+;R12

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION

CAUTION! First aid personnel must be aware of own risk during rescue! **NOTE!** Keep affected person away from heat, sparks and flames!

INHALATION

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention. Place unconscious person on the side in the recovery position and ensure breathing. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

INGESTION

Rinse mouth thoroughly. Get medical attention. **DO NOT INDUCE VOMITING!**

SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

(Aerosol) H.D.I.A.**EXTINGUISHING MEDIA**

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours. Be aware of danger of explosion.

UNUSUAL FIRE & EXPLOSION HAZARDS

Aerosol cans may explode in a fire. **HIGHLY FLAMMABLE!**

SPECIFIC HAZARDS

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

For personal protection, see section 8.

ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wash thoroughly after dealing with a spillage.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

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. Read and follow manufacturer's recommendations. During application and drying, solvent vapours will be emitted. Eliminate all sources of ignition.

STORAGE PRECAUTIONS

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place.

STORAGE CLASS

Flammable compressed gas storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
ACETONE	WEL	500 ppm	1210 mg/m ³	1500 ppm	3620 mg/m ³	
BUTANE	WEL	600 ppm	1450 mg/m ³	750 ppm	1810 mg/m ³	
DICHLOROMETHANE	WEL	100 ppm	350 mg/m ³	300 ppm	1060 mg/m ³	Sk
PROPANE		Asphyxiating	Asphyxiating	Asphyxiating	Asphyxiating	

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT**ENGINEERING MEASURES**

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

(Aerosol) H.D.I.A.**RESPIRATORY EQUIPMENT**

If ventilation is insufficient, suitable respiratory protection must be provided. Wear mask supplied with: Gas cartridge suitable for organic substances.

HAND PROTECTION

Use protective gloves made of: Polyvinyl alcohol (PVA). 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 chemical safety goggles where eye exposure is reasonably probable.

OTHER PROTECTION

Provide eyewash station.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash 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.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear Liquid		
COLOUR	Light brown		
ODOUR	Strong. Solvent.		
SOLUBILITY	Soluble in Hydrocarbons. Immiscible with water		
VAPOUR DENSITY (air=1)	>1	EVAPORATION RATE	>1
VOLATILE ORGANIC COMPOUND (VOC)	672.3 g/litre		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions. Avoid: Heat, sparks, flames. Shocks and physical damage.

CONDITIONS TO AVOID

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

HAZARDOUS DECOMPOSITION PRODUCTS

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

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50	1600 mg/kg (oral rat)
TOXIC CONC. - LC 50	52000 ppm/4h (inh-rat)

GENERAL INFORMATION

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Known or suspected carcinogen for humans.

INHALATION

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

INGESTION

Swallowing concentrated chemical may cause severe internal injury.

SKIN CONTACT

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

EYE CONTACT

Spray and vapour in the eyes may cause irritation and smarting.

HEALTH WARNINGS

May cause cancer after repeated exposure.

OTHER HEALTH EFFECTS

Carcinogen Category 3.

ROUTE OF ENTRY

Skin absorption. Inhalation. Ingestion.

TARGET ORGANS

Respiratory system, lungs. Central nervous system. Liver. Mucous membranes.

(Aerosol) H.D.I.A.**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Dangerous for the environment: Degrades very slowly in nature.

MOBILITY

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. The product is insoluble in water and will sediment in water systems.

BIOACCUMULATION

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

DEGRADABILITY

The product is not readily biodegradable.

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

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.

DISPOSAL METHODS

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground.

14 TRANSPORT INFORMATION

UK ROAD CLASS	2.1		
PROPER SHIPPING NAME	AEROSOLS		
UN NO. ROAD	1950	UK ROAD PACK GR.	#
ADR CLASS NO.	2.1	ADR CLASS	Class 2: Gases
ADR PACK GROUP	#	TUNNEL RESTRICTION CODE	(D)
ADR LABEL NO.	2.1	CEFIC TEC(R) NO.	20G5F
RID CLASS NO.	2.1	RID PACK GROUP	#
UN NO. SEA	1950	IMDG CLASS	2.1
IMDG PAGE NO.	93 (VOL 2)	IMDG PACK GR.	#
EMS	F-D, S-U	UN NO. AIR	1950
AIR CLASS	2.1	AIR PACK GR.	#

15 REGULATORY INFORMATION**LABELLING**

Harmful



Extremely Flammable

CONTAINS DICHLOROMETHANE

RISK PHRASES

R12 Extremely flammable.
R40 Limited evidence of a carcinogenic effect.

SAFETY PHRASES

S2 Keep out of the reach of children
S9 Keep container in a well-ventilated place.

(Aerosol) H.D.I.A.

S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour/spray.
S36/37	Wear suitable protective clothing and gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S24/25	Avoid contact with skin and eyes.
S35	This material and its container must be disposed of in a safe way.

EU DIRECTIVES

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

NATIONAL REGULATIONS

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

16 OTHER INFORMATION

GENERAL INFORMATION

Only trained personnel should use this material.

REVISION DATE 01/09/2009

REV. NO./REPL. SDS GENERATED 1

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.

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 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.