

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 13/02/2015 Revision date: : Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : HIGHW/AL
Type of product : Aerosol
Vaporizer : Aerosol
Product group : Aerosol

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Function or use category : Aerosol

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

U-POL LIMITED Denington Road Northants

NN8 2QH Wellingborough - UK

T +44 (0) 1933 230310 - F +44 (0) 1933 425797 technical.department@u-pol.com - www.u-pol.com

1.4. Emergency telephone number

Emergency number : +44 1933 230310 (07:30 - 17:00hrs UK time)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol 1 H222;H229 Liquefied gas H280 Eye Irrit. 2 H319 STOT SE 3 H336

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Precautionary statements (CLP)

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :





GHS02

Signal word (CLP) : Danger

Hazardous ingredients : n-butyl acetate, methyl acetate, ethyl methyl ketone

Hazard statements (CLP) : H222 - Extremely flammable aerosol

H229 - Pressurised container: May burst if heated

H280 - Contains gas under pressure; may explode if heated

H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness

: P211 - Do not spray on an open flame or other ignition source

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P251 - Do not pierce or burn, even after use

P264 - Wash hands thoroughly after handling

P280 - Wear eye protection, protective clothing, 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 P312 - Call a doctor if you feel unwell

No labelling applicable

Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Substance

Not applicable

3.2. **Mixture**

Name	Product identifier	%	Classification according to Directive 67/548/EEC	
ethyl methyl ketone	(CAS No) 78-93-3 (EC no) 201-159-0 (EC index no) 606-002-00-3	23 - 43	F; R11 Xi; R36 R66 R67	
methyl acetate	(CAS No) 79-20-9 (EC no) 201-185-2 (EC index no) 607-021-00-X	5 - 23	F; R11 Xi; R36 R66 R67	
xylene	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9	< 5	R10 Xn; R20/21 Xi; R38	
ethylbenzene	(CAS No) 100-41-4 (EC no) 202-849-4 (EC index no) 601-023-00-4	< 5	F; R11 Xn; R20	
2-methoxy-1-methylethyl acetate substance with a Community workplace exposure limit	(CAS No) 108-65-6 (EC no) 203-603-9 (EC index no) 607-195-00-7	< 5	R10	
Name	Product identifier	Specific co	Specific concentration limits	
xylene	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9	(C >= 12.5) 3	(C >= 12.5) Xn;R20/21	
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
ethyl methyl ketone	(CAS No) 78-93-3 (EC no) 201-159-0 (EC index no) 606-002-00-3	23 - 43	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
methyl acetate	(CAS No) 79-20-9 (EC no) 201-185-2 (EC index no) 607-021-00-X	5 - 23	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
xylene	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9	< 5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315	
ethylbenzene	(CAS No) 100-41-4 (EC no) 202-849-4 (EC index no) 601-023-00-4	< 5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304	
2-methoxy-1-methylethyl acetate substance with a Community workplace exposure limit	(CAS No) 108-65-6 (EC no) 203-603-9 (EC index no) 607-195-00-7	< 5	Flam. Liq. 3, H226	

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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Remove affected clothing and wash all exposed skin area with mild soap and water, followed First-aid measures after skin contact

by warm water rinse.

First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Get medical

advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May cause genetic defects.

Symptoms/injuries after inhalation : May cause cancer by inhalation. May cause drowsiness or dizziness.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable gas.

: May form flammable/explosive vapour-air mixture. Explosion hazard

Advice for firefighters

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any Firefighting instructions

chemical fire. Prevent fire-fighting water from entering environment. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Remove ignition sources. Use special care to avoid static electric charges. Eliminate every General measures

possible source of ignition. No open flames. No smoking.

For non-emergency personnel 6.1.1.

Protective equipment : Protective clothing. Safety glasses. Gloves.

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing spray, vapours.

: Ventilate area. **Emergency procedures**

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

For containment : Contain leaking substance. Collect spillage.

Methods for cleaning up : Store away from other materials.

Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Flammable gas.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapour. No open flames. No smoking. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Avoid breathing spray, vapours. Use only outdoors or in a well-ventilated area.

: Wash hands thoroughly after handling. Hygiene measures

Conditions for safe storage, including any incompatibilities

Technical measures Proper grounding procedures to avoid static electricity should be followed.

Storage conditions Keep only in the original container in a cool, well ventilated place away from: Heat sources,

Ignition sources. Keep in fireproof place. Keep container tightly closed.

Incompatible products Strong bases. Strong acids.

Sources of ignition. Direct sunlight. Heat sources. Incompatible materials

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Storage temperature

: < 25 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethylbenzene (100-41-4)			
EU	Local name	Ethylbenzene	
EU	IOELV TWA (mg/m³)	442 mg/m³	
EU	IOELV TWA (ppm)	100 ppm	
EU	IOELV STEL (mg/m³)	884 mg/m³	
EU	IOELV STEL (ppm)	200 ppm	
EU	Notes	Skin	
United Kingdom	Local name	Ethylbenzene	
United Kingdom	WEL TWA (mg/m³)	441 mg/m³	
United Kingdom	WEL TWA (ppm)	100 ppm	
United Kingdom	WEL STEL (mg/m³)	552 mg/m³	
United Kingdom	WEL STEL (ppm)	125 ppm	
United Kingdom	Remark (WEL)	Sk	
xylene (1330-20-7)			
EU	Local name	Xylene, mixed isomers, pure	
EU	IOELV TWA (mg/m³)	221 mg/m³	
EU	IOELV TWA (III)	50 ppm	
EU	IOELV TWA (ppin) IOELV STEL (mg/m³)	442 mg/m³	
EU	IOELV STEL (mg/m²)	100 ppm	
EU	Notes	Skin	
United Kingdom	Local name	Xylene, o-,m-,p- or mixed isomers	
United Kingdom	WEL TWA (mg/m³)	220 mg/m ³	
United Kingdom	WEL TWA (mg/m²) WEL TWA (ppm)	50 ppm	
United Kingdom	WEL TWA (ppin) WEL STEL (mg/m³)	441 mg/m ³	
United Kingdom	WEL STEL (mg/m²) WEL STEL (ppm)	100 ppm	
United Kingdom	Remark (WEL)	Sk, BMGV	
		SK, DIVIGV	
2-methoxy-1-methylethyl ac		O Matheway A methodath decatate	
EU EU	Local name	2-Methoxy-1-methylethylacetate	
	IOELV TWA (mg/m³)	275 mg/m³	
EU	IOELV TWA (ppm)	50 ppm	
EU	IOELV STEL (mg/m³)	550 mg/m³	
EU EU	IOELV STEL (ppm)	100 ppm	
	Notes	Skin	
United Kingdom	Local name	1-Methoxypropyl acetate	
United Kingdom	WEL TWA (mg/m³)	274 mg/m³	
United Kingdom	WEL TWA (ppm)	50 ppm	
United Kingdom	WEL STEL (mg/m³)	548 mg/m³	
United Kingdom	WEL STEL (ppm)	100 ppm	
United Kingdom	Remark (WEL)	Sk	
methyl acetate (79-20-9)	T		
United Kingdom	Local name	Methyl acetate	
United Kingdom	WEL TWA (mg/m³)	616 mg/m ³	
United Kingdom	WEL TWA (ppm)	200 ppm	
United Kingdom	WEL STEL (mg/m³)	770 mg/m³	
United Kingdom	WEL STEL (ppm)	250 ppm	
ethyl methyl ketone (78-93-3			
EU	Local name	Butanone	
EU	IOELV TWA (mg/m³)	600 mg/m³	
EU	IOELV TWA (ppm)	200 ppm	
EU	IOELV STEL (mg/m³)	900 mg/m³	
EU	IOELV STEL (ppm)	300 ppm	
United Kingdom	Local name	Butan-2-one	
United Kingdom	WEL TWA (mg/m³)	600 mg/m ³	

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ethyl methyl ketone (78-93-3)		
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m³)	899 mg/m³
United Kingdom	WEL STEL (ppm)	300 ppm
United Kingdom	Remark (WEL)	Sk, BMGV

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Materials for protective clothing : Impermeable clothing
Hand protection : Wear protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Gas Appearance : Aerosol. Colour : white. Odour : characteristic. Odour threshold : No data available рΗ No data available : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point Flash point : _09-92-020PR Auto-ignition temperature : No data available Decomposition temperature No data available

Flammability (solid, gas) : Extremely flammable gas

Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available

Solubility : insoluble in water. soluble in most organic solvents.

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

VOC content : 613 g/l
MIR : 1.55
Gas group : Liquefied gas

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Extremely flammable gas.

10.3. Possibility of hazardous reactions

Not established.

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10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated

exposure)

: Not classified

Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

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Vaporizer Aerosol

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

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Persistence and degradability Not established.

12.3. Bioaccumulative potential

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Bioaccumulative potential Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to Remove waste in accordance with local and/or national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1950	1950	1950	1950	1950
14.2. UN proper shipping	name			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Transport document descript	tion			
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1			
14.3. Transport hazard cl	ass(es)			
2.1	2.1	2.1	2.1	2.1
2	2	2	2	2
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haza	irds			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 11 Excepted quantities (ADR) : E0

Packing instructions (ADR) : P207, LP02 Special packing provisions (ADR) : PP87, RR6, L2

Mixed packing provisions (ADR) : MP9
Transport category (ADR) : 2
Special provisions for carriage - Packages : V14
(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

Special provisions for carriage - Operation : S2

(ADR)

Tunnel restriction code (ADR) : D

14.6.2. Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 959

: CV9, CV12

Limited quantities (IMDG) : SP277
Excepted quantities (IMDG) : E0

Packing instructions (IMDG): P207, LP02Special packing provisions (IMDG): PP87, L2EmS-No. (Fire): F-DEmS-No. (Spillage): S-UStowage category (IMDG): None

Stowage and segregation (IMDG)

: Protected from sources of heat For AEROSOLS with a maximum capacity of 1 litre: Category

A. Segregation as for class 9 but 'Separated from' class 1 except division 1.4. For AEROSOLS

with a capacity above 1 litre: Category B. Segregation as for the appropriate sub-division of

class 2. For WASTE AEROSOLS: Category C. Clear of living quarters. Segregation as for the appropriate sub-division of class 2.

14.6.3. Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203

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CAO max net quantity (IATA) : 150kg
Special provisions (IATA) : A145, A167

ERG code (IATA) : 10L

14.6.4. Inland waterway transport

Classification code (ADN) : 5F

Special provisions (ADN) : 19, 327, 344, 625

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01, VE04

Number of blue cones/lights (ADN) : 1
Carriage prohibited (ADN) : No
Not subject to ADN : No

14.6.5. Rail transport

Classification code (RID) : 5F

Special provisions (RID) : 190, 327, 344, 625

Limited quantities (RID) : 1L Excepted quantities (RID) : E0

Packing instructions (RID) : P207, LP02 Special packing provisions (RID) : PP87, RR6, L2

Mixed packing provisions (RID): MP9Transport category (RID): 2Special provisions for carriage – Packages: W14

(RID)

Special provisions for carriage - Loading,

unloading and handling (RID)

· CE2

: CW9, CW12

Colis express (express parcels) (RID) : CE2
Hazard identification number (RID) : 23
Carriage prohibited (RID) : No

14.7. 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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions
Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 613 g/l

Seveso Information : This product is subject to the Seveso Directive

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-phrases:

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Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4	
Aerosol 1	Aerosol, Category 1	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
Liquefied gas	Gases under pressure: Liquefied gas	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	
H222	Extremely flammable aerosol	
H225	Highly flammable liquid and vapour	
H226	Flammable liquid and vapour	
H229	Pressurised container: May burst if heated	
H280	Contains gas under pressure; may explode if heated	
H304	May be fatal if swallowed and enters airways	
H312	Harmful in contact with skin	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H332	Harmful if inhaled	
H336	May cause drowsiness or dizziness	
H373	May cause damage to organs through prolonged or repeated exposure	
R10	Flammable	
R11	Highly flammable	
R20	Harmful by inhalation	
R20/21	Harmful by inhalation and in contact with skin	
R36	Irritating to eyes	
R38	Irritating to skin	
R66	Repeated exposure may cause skin dryness or cracking	
R67	Vapours may cause drowsiness and dizziness	
F	Highly flammable	
Xi	Irritant	
Xn	Harmful	

UPOL SDS EU (no product code)

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