

# SAFETY DATA SHEET

## 1 Identification of the preparation and company

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Product name:	<b>Jawel 2K Air Dry Hardener fast</b>
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Intended use:	Car refinishing
Name:	Jawel Paints West Midlands Ltd Units 313-317 Heath Street Smethwick, West Midlands, B66 2QY
Telephone number:	0121 5586191
Emergency phone number:	0121 5586193

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## 2 Composition/information on ingredients

Substances presenting a health hazard within the meaning of the CHIP (Chemicals Hazard Information and Packaging) Regulations or assigned occupational exposure limits.

	<b>Name</b>	<b>Conc. range (%)</b>	<b>Symbol letter</b>	<b>R-phrases (*)</b>
CAS-nbr.: 108-88-3	toluene	10-25	Xn	11 20
CAS-nbr.: 141-78-6	ethyl acetate	10-25	F	11
CAS-nbr.: 28182-81-2	aliph. polyisocyanate	25-50	Xn	43

(\*) for full text see Section 16.

## 3 Hazards identification

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Harmful by inhalation  
Highly flammable  
Contains: Isocyanates (monomers)

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## 4 First aid measures

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General:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation:	Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.
Eye contact:	Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
Skin contact:	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.
Ingestion:	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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## 5 Fire fighting measures

### Extinguishing media:

Recommended:	alcohol resistant foam, CO <sub>2</sub> , powder water spray/mist
Not to be used:	waterjet.

Recommendations:	Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Exposure to decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
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## 6 Accidental release measures

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Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises: water (45 parts by volume)/ethanol or isopropanol (50 parts)/concentrated (d: 0.880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts)/water (95 parts). Add the same decontaminant to any residues and allow to stand for several days in a non-sealed container until no further reaction occurs. Once this stage is reached, close the container and dispose of in accordance with the waste regulations (see Section 13). Do not allow to enter drains or water courses.

If the product enters drains or sewers the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority.

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## 7 Handling and storage

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**Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should only be employed in processes in which this product is used under appropriate medical supervision.**

### Handling:

Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Keep the container tightly closed.

Exclude sources of heat, sparks and open flames. Non-sparking tools should be used.

Avoid skin and eye contact. Avoid inhalation of vapour and spray mist.

Smoking, eating and drinking should be prohibited in areas of storage and use.

For personal protection see Section 8.

Never use pressure to empty: the container is not a pressure vessel.

Always keep in containers made of the same material as the supply container.

Good housekeeping standards and regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards.

Precautions should be taken to minimise exposure to atmospheric humidity or water as carbon dioxide may be formed which, in closed containers can result in pressurisation.

Care should be taken when reopening partly used containers.

The Manual Handling Operations Regulations may apply to the handling of packages of this product. Refer to the guide weight indicated on the package when carrying out assessments.

### Storage:

The storage and use of this product is subject to the requirements of the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations. Up to 50 litres of such highly flammable liquids may be kept in a work room provided they are kept in a fireproof cupboard or bin. Larger quantities must be kept in a separate storeroom conforming to the structural requirements of the Regulations. Further guidance is

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contained in the HSE guidance note Storage of Flammable Liquids in Containers. Observe the label precautions.  
Store between [5] and [25] °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.  
No smoking.  
Prevent unauthorised access.  
Containers which are opened should be properly resealed and kept upright to prevent leakage. The principles contained in the HSE guidance note Storage of Packaged Dangerous Substances, should be observed when storing this product. Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water.

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## 8 Exposure controls/personal protection

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**Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should only be employed in processes in which this product is used under appropriate medical supervision.**

**Engineering Measures:** Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.  
Spraying of isocyanate containing products should only be carried out in suitable spray booths or enclosures equipped with effective exhaust ventilation to prevent spray mist escaping into the work area outside the spray booth. Respiratory protective equipment should be worn by spray booth operatives (see 'Personal protection' below)

<b>Exposure Limits:</b>	CAS-nbr.:	Substance	Occupational exposure limits 8 hr TWA	
			ppm	mg/m
	108-88-3	toluene	40	150
	141-78-6	ethyl acetate	150	550

**Notes:** Long term exposure limit - 8 hour time weighted average

### **Personal Protection:**

**All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of COSHH Regulations.**

**Respiratory protection:** Air-fed respiratory protective equipment should be worn when this product is sprayed. This should be in addition to other measures taken to reduce exposure (e.g. in booth design and operation and process modifications). Non-essential and unprotected people should be excluded from the area if exposure is possible.

**Hand protection:** When skin exposure may occur, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

**Eye protection :** Eye protection designed to protect against liquid splashes should be worn.

**Skin protection:** Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

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## 9 Physical and chemical properties

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physical state:	liquid	
flash point:	13°C	method: Abel Pensky
viscosity:	--	method: DIN cup NEN-ISO 2431
specific gravity:	0,98 g/cm <sup>3</sup>	method: NEN 5323 ISO 2811
vapour density:	4,00	
upper explosion limit:	1,2 % v/v	
lower explosion limit:	12,0 % v/v	
solubility in water:	the product is not soluble in water	
V.O.C.:	566 g/ltr	

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## 10 Stability and reactivity

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Stable under the recommended storage and handling conditions. (See Section 7). In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, amines and alcohols may be produced. Keep away from oxidising agents and strongly alkaline and strongly acidic materials. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts slowly with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

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## 11 Toxicological information

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There is no data available on the product itself.

Based on the properties of the isocyanate content of this product, respiratory exposure may cause acute irritation and/or sensitization of the respiratory system, resulting in asthmatic symptoms, wheezing and a tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to airborne concentrations of isocyanates well below the occupational exposure limit. Repeated exposure may lead to permanent respiratory disability.

Exposure to organic solvent vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage. COSHH requires that persons exposed to products containing isocyanates, which are respiratory sensitisers, are subject to appropriate health surveillance. Publications giving guidance on health surveillance are listed in Section 16. Employees should be provided with a copy of the HSE pocket card containing information on isocyanate 2 pack spray paints.

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## 12 Ecological information

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There is no data available on the product itself.  
The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.  
The product contains Xylene which is classified as Xn.

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## 13 Disposal considerations

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Residues in emptied containers should be neutralised with decontaminant (see Section 6). Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. [Using information provided in this data sheet, advice should be obtained from the Waste Regulation Authority whether the special waste regulations apply].

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## 14 Transport information

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### Transport within the user's premises:

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

### Transport details

Domestic road/rail

Class: 3,5b                      UN number: 1263  
Sub hazard:                      toluene  
Proper Shipping Name:      paint related material  
Packing Group:                II  
Ensure drivers have adequate training.

For international  
road/rail transport:

Chemical name:                Not applicable  
UN Number:                      1263

For Sea transport:

Class:                              3,2  
Marine Pollutant: not applicable  
EmS:                                3-05  
MFAG:                              310

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## 15 Regulatory information

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The product is classified and labelled in accordance with the CHIP (Chemicals Hazard Information and Packaging) Regulations as follows:

Symbols:                      Xn      F

Contains:                      Toluene  
Isocyanates, see information supplied by the manufacturer.

R phrases:                      11 Highly flammable  
20 Harmful by inhalation.  
43 May cause sensitization

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S phrases: 51 Use only in well-ventilated areas.  
16 Keep away from sources of ignition - No smoking.  
23 Do not breathe vapour/spray.  
38 In case of insufficient ventilation, wear suitable respiratory equipment.

The information contained in this data sheet does not constitute the user's own assessment of workplace risks as Required by other health and safety legislation.

The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

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## 16 Other information

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For professional use only.

Text of R phrases listed in Section 2

R 11 Highly flammable  
R 20 Harmful by inhalation.  
R 43 May cause sensitization

The information in this safety data sheet is provided in accordance with the requirements of the CHIP (Chemicals Hazard Information and Packaging) Regulations.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet is based on the present stage of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Further information and relevant advice can be found in:

The Control of Substances Hazardous to health Regulations 1988 (SI 1988:1657),

The Manual Handling Operations Regulations 1992 (SI 1992:2793)

Storage of Flammable Liquid in containers, HS(G)51

Storage of Packaged Dangerous Substances, HS(G)71

The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992:2839)

Your health and 2 pack spray paints, MS(B)8, HSE.

Surveillance of people exposed to health risks at work, [ISBN 0 11 885574 3], HMSO

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