



SAFETY DATA SHEET: AD77 Plastic Magic

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

1.1. Product identifier

Product name	PLASTIC MAGIC
Product number	AD77
UFI	DQ10-A0HF-N00D-QKFC
Synonyms; trade names	
REACH registration number	01-2119490744-29-XXXX
CAS number	646-06-0
EU index number	605-017-00-2
EC number	211-463-5

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

Identified uses	Solvent for model building
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1.3. Details of the supplier of the safety data sheet

Supplier	Deluxe Materials Ltd., Unit 12 & 13, Cufaude Business Park, Cufaude Lane, Bramley, Hampshire, RG26 5DL, United Kingdom
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+44 (0)1256 883944
john@deluxematerials.com

1.4. Emergency telephone number

Emergency telephone	+44 (0)1256 883944 (Mon-Friday office hours only)
Sds No.	51370

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Flam. Liq. 2 - H225
Health hazards	Eye Dam. 1 - H318
Environmental hazards	Not Classified

2.2. Label elements

EC number	211-463-5
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SAFETY DATA SHEET: AD77 Plastic Magic



Hazard pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H318 Causes serious eye damage.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/ container in accordance with national regulations.

Contains

PLASTIC MAGIC

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria. Vapours may form explosive mixtures with air.

SECTION 3: Composition/information on ingredients

3.1. Substances

1,3-DIOXOLANE 60-100%		
CAS number: 646-06-0	EC number: 211-463-5	REACH registration number: 01-2119490744-29-XXXX
Classification Flam. Liq. 2 - H225 Eye Dam. 1 - H318		
WATER 5-10%		
CAS number: 7732-18-5	EC number: 231-791-2	
Classification Not Classified		
METHANOL < 3%		
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01-2119433307-44-XXXX
Classification Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370		

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

Product name	PLASTIC MAGIC
REACH registration number	01-2119490744-29-XXXX
EU index number	605-017-00-2
CAS number	646-06-0
EC number	211-463-5
Composition comments	The data shown are in accordance with the latest EC Directives.

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

Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Eye contact	Causes serious eye damage.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media	Extinguish with the following media: Alcohol-resistant foam. Water spray, fog or mist.
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	Highly flammable liquid and vapour. Vapours may form explosive mixtures with air.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting	Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.
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**

SAFETY DATA SHEET: AD77 Plastic Magic**Personal precautions**

Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation.

6.2. Environmental precautions**Environmental precautions**

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

6.3. Methods and material for containment and cleaning up**Methods for cleaning up**

Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Take precautionary measures against static discharge. Control run-off water by containing and keeping it out of sewers and watercourses. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections**Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Usage precautions**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid inhalation of vapours/spray and contact with skin and eyes. Provide adequate ventilation.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Provide eyewash station and safety shower. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities**Storage precautions**

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Take precautionary measures against static discharges. Store at temperatures between -10°C and 30°C. Avoid contact with acids. Avoid contact with oxidising agents.

Storage class

Flammable liquid 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****METHANOL**

Sk

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Sk = Can be absorbed through the skin.

WEL = Workplace Exposure Limit.

PLASTIC MAGIC**Ingredient comments**

No exposure limits known for ingredient(s).

SAFETY DATA SHEET: AD77 Plastic Magic**DNEL**

General population - Inhalation; Long term systemic effects: 4.5 mg/m³
 General population - Dermal; Long term systemic effects: 6.5 mg/kg/day
 Workers - Inhalation; Long term systemic effects: 18.09 mg/m³
 Workers - Dermal; Long term systemic effects: 4.36 mg/kg/day
 General population - Oral; Long term systemic effects: 6.5 mg/kg/day

PNEC

- Fresh water; 19.7 mg/l
 - marine water; 1.97 mg/l
 - Sediment (Freshwater); 77.7 mg/kg
 - Sediment (Marinewater); 7.77 mg/kg
 - Soil; 2.62 mg/kg
 - STP; 1 mg/l
 - Intermittent release; 0.95 mg/l

METHANOL (CAS: 67-56-1)**DNEL**

Workers - Inhalation; Long term systemic effects: 130 mg/m³
 Workers - Inhalation; Short term systemic effects: 130 mg/m³
 Workers - Inhalation; Long term local effects: 130 mg/m³
 Workers - Inhalation; Short term local effects: 130 mg/m³
 Workers - Dermal; Long term systemic effects: 20 mg/m³
 Workers - Dermal; Long term systemic effects: 20 mg/kg/day
 General population - Inhalation; Long term systemic effects: 26 mg/m³
 General population - Inhalation; Short term systemic effects: 26 mg/m³
 General population - Inhalation; Long term local effects: 26 mg/m³
 General population - Inhalation; Short term local effects: 26 mg/m³
 General population - Dermal; Long term systemic effects: 5 mg/kg/day
 General population - Dermal; Short term systemic effects: 5 mg/kg/day
 General population - Oral; Long term systemic effects: 5 mg/kg/day
 General population - Oral; Short term systemic effects: 5 mg/kg/day

DMEL

Workers - Dermal; Long term systemic effects: 40 mg/kg/day

PNEC

- Fresh water; 20.8 mg/l
 - marine water; 2.08 mg/l
 - Intermittent release; 1540 mg/l
 - STP; 100 mg/l
 - Sediment (Freshwater); 77 mg/kg
 - Sediment (Marinewater); 7.7 mg/kg
 - Soil; 100 mg/kg

8.2. Exposure controls**Protective equipment****Appropriate engineering controls**

Provide adequate ventilation. Provide eyewash station and safety shower.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

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Hand protection	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. The selected gloves should have a breakthrough time of at least > 1 hours. Polyvinyl chloride (PVC). Thickness: 1.2 mm To protect hands from chemicals, gloves should comply with European Standard EN374.
Other skin and body protection	Wear suitable protective clothing as protection against splashing or contamination. For the greatest protection, clothing should include anti-static overalls, boots and gloves.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Gas filter, type A2. EN 136/140/141/145/143/149

SECTION 9: Physical and chemical properties
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9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Mild.
Odour threshold	No information available.
pH	No information available.
Melting point	-95°C
Pour Point	No information available.
Freezing Point	No information available.
Initial boiling point and range	76°C OECD 103
Flash point	2°C
Evaporation rate	0.29
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 2.1 % Upper flammable/explosive limit: 20.5 %
Other flammability	No information available.
Vapour pressure	101 hPa @ 20°C
Vapour density	2
Relative density	1.06 @ 20°C
Bulk density	1060 kg/m ³
Solubility(ies)	Soluble in water.
Partition coefficient	log Kow: -0.37
Auto-ignition temperature	250°C
Decomposition Temperature	No information available.

SAFETY DATA SHEET: AD77 Plastic Magic

Viscosity	20 mm ² /s @ 25°C
Explosive properties	No information available.
Explosive under the influence of a flame	No information available.
Oxidising properties	No information available.
<u>9.2. Other information</u>	
Refractive index	No information available.
Particle size	No information available.
Molecular weight	74.08
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Vapours may form explosive mixtures with air.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.
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10.5. Incompatible materials

Materials to avoid	Strong acids. Oxidising agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Oxides of carbon.
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SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity - oral**

ATE oral (mg/kg)	3,448.28
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Acute toxicity - dermal

ATE dermal (mg/kg)	10,344.83
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Acute toxicity - inhalation

Notes (inhalation LC ₅₀)	Based on available data the classification criteria are not met.
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ATE inhalation (vapours mg/l)	103.45
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Skin corrosion/irritation

SAFETY DATA SHEET: AD77 Plastic Magic

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard No information available.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion The product irritates mucous membranes and may cause abdominal discomfort if swallowed.

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact Causes serious eye damage.

Toxicological information on ingredients.

PLASTIC MAGIC

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation 68.4
(LC₅₀ vapours mg/l)

Species Rat

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

ATE inhalation (vapours 68.4
mg/l)

Skin corrosion/irritation

SAFETY DATA SHEET: AD77 Plastic Magic

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEC 0.903 mg/l, Inhalation, Rat

Aspiration hazard

Aspiration hazard No information available.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion The product irritates mucous membranes and may cause abdominal discomfort if swallowed.

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact Causes serious eye damage.

WATER

Skin corrosion/irritation

Animal data No information available.

Serious eye damage/irritation

Serious eye damage/irritation No information available.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

SAFETY DATA SHEET: AD77 Plastic Magic

Genotoxicity - in vitro No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

Inhalation No specific health hazards known.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact May cause temporary eye irritation.

METHANOL

Acute toxicity - oral

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 3.0

Species Rat

ATE inhalation (vapours mg/l) 3.0

Skin corrosion/irritation

Skin corrosion/irritation Not irritating. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Not irritating. Rabbit

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

SAFETY DATA SHEET: AD77 Plastic Magic

Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Gene mutation: Negative.
Genotoxicity - in vivo	DNA damage and/or repair: Negative. Mouse
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEL 466 mg/kg/day, Oral, Rat
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	No information available.
Reproductive toxicity - development	Embryotoxicity: - : , Oral, Mouse Negative. Fetotoxicity: - : , Oral, Mouse Positive.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	STOT SE 1 - H370
Target organs	Central nervous system Eyes
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	LOAEL 2340 mg/kg, Oral, Monkey NOAEL 1.06 mg/l, Inhalation, Rat 90 days
Target organs	Eyes Central nervous system
<u>Aspiration hazard</u>	
Aspiration hazard	No information available.
<u>Inhalation</u>	
Inhalation	Toxic by inhalation. Drowsiness, dizziness, disorientation, vertigo.
<u>Ingestion</u>	
Ingestion	Toxic if swallowed. May cause unconsciousness, blindness and possibly death.
<u>Skin contact</u>	
Skin contact	Toxic in contact with skin.
<u>Eye contact</u>	
Eye contact	May cause temporary eye irritation.
Target organs	Kidneys Liver Heart & cardiovascular system
Medical considerations	Liver and/or kidney damage.

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.**PLASTIC MAGIC**

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

WATER

Ecotoxicity There are no data on the ecotoxicity of this product.

METHANOL

SAFETY DATA SHEET: AD77 Plastic Magic**Ecotoxicity**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity**Toxicity**

Not considered toxic to fish.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, : 546.3 mg/l,

Ecological information on ingredients.**PLASTIC MAGIC****Toxicity**

Not considered toxic to fish.

Acute aquatic toxicity**Acute toxicity - fish**

LC50, 96 hours: > 95.4 mg/l, *Lepomis macrochirus* (Bluegill)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 772 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants

EC₅₀, 72 hours: 877 mg/l, *Selenastrum capricornutum*

Chronic aquatic toxicity**Chronic toxicity - fish early life stage**

NOEC, : 546.3 mg/l,

Chronic toxicity - aquatic invertebrates

NOEC, : 197.4 mg/l,

WATER**Toxicity**

Not considered toxic to fish.

METHANOL**Acute aquatic toxicity****Acute toxicity - fish**

LC50, 96 hours: 15400 mg/l, *Lepomis macrochirus* (Bluegill)
NOEC, 200 hour: 15800 mg/l, *Oryzias latipes* (Red killifish)
LC₅₀, 96 hour: > 100 mg/l, *Pimephales promelas* (Fat-head Minnow)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: > 10000 mg/l, *Daphnia magna*
EC₅₀, 96 hour: 22200 - 23400 mg/l, Freshwater invertebrates
Daphnia obtusa - Neonate
EC₅₀, 48 hour: 2500 mg/l, Marinewater invertebrates
Crangon Crangon (Common sand shrimp)

Acute toxicity - aquatic plants

EC₅₀, 96 hours: 22000 mg/l, *Selenastrum capricornutum*
EC₅₀, 96 hour: 16.912 mg/l, Marinewater algae
Ulva pertusa
Chronic, NOEC, 96 hour: 9.96 mg/l, Marinewater algae
Ulva pertusa

Acute toxicity - microorganisms

IC₅₀, 15 hour: 20000 mg/l,
IC₅₀, 3 hour: > 1000 mg/l,

SAFETY DATA SHEET: AD77 Plastic Magic**12.2. Persistence and degradability**

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.**PLASTIC MAGIC**

**Persistence and
degradability**

The product is not biodegradable.

Biodegradation

- Degradation 3.7%: 35 days
OECD 301D

WATER

**Persistence and
degradability**

There are no data on the degradability of this product.

METHANOL

**Persistence and
degradability**

The product is readily biodegradable.

Biodegradation

Water - Degradation (%) 71.5: 5 days
Water - Degradation (%) 95: 20 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient log Kow: -0.37

Ecological information on ingredients.**PLASTIC MAGIC**

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

log Kow: -0.37

WATER

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

No information available.

METHANOL

Bioaccumulative potential

The product is not bioaccumulating. BCF: < 10, Leuciscus idus (Golden orfe)

Partition coefficient

log Pow: -0.82 / -0.66

12.4. Mobility in soil

Mobility The product is soluble in water.

Ecological information on ingredients.**PLASTIC MAGIC**

Mobility

The product is soluble in water.

SAFETY DATA SHEET: AD77 Plastic Magic**WATER****Mobility**

The product is soluble in water.

METHANOL**Mobility**

The product is soluble in water.

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

This substance is not classified as PBT or vPvB according to current EU criteria.

Ecological information on ingredients.**PLASTIC MAGIC****Results of PBT and vPvB assessment**

This substance is not classified as PBT or vPvB according to current EU criteria.

WATER**Results of PBT and vPvB assessment**

This substance is not classified as PBT or vPvB according to current EU criteria.

METHANOL**Results of PBT and vPvB assessment**

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects**Other adverse effects**

Not determined.

Ecological information on ingredients.**PLASTIC MAGIC****Other adverse effects**

Not determined.

WATER**Other adverse effects**

Not determined.

METHANOL**Cod**

1.42

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

Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information**General**

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

14.1. UN number

SAFETY DATA SHEET: AD77 Plastic Magic

UN No. (ADR/RID)	1166
UN No. (IMDG)	1166
UN No. (ICAO)	1166
UN No. (ADN)	1166

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	1,3-DIOXOLANE
Proper shipping name (IMDG)	1,3-DIOXOLANE
Proper shipping name (ICAO)	1,3-DIOXOLANE
Proper shipping name (ADN)	1,3-DIOXOLANE

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels**14.4. Packing group**

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II
ADN packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS	F-E, S-D
ADR transport category	2
Emergency Action Code	•2YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SAFETY DATA SHEET: AD77 Plastic Magic

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**

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).
Commission Regulation (EU) No 2015/830 of 28 May 2015.
This product may impact SEVESO storage regulations.

Restrictions (Annex XVII Regulation 1907/2006) This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 69

Seveso Directive - Control of major accident hazards P5c

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

Inventories**EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

Canada - DSL/NDL

All the ingredients are listed or exempt.
DSL

US - TSCA

All the ingredients are listed or exempt.

Australia - AICS

All the ingredients are listed or exempt.

Japan - ENCS

All the ingredients are listed or exempt.

Korea - KECI

All the ingredients are listed or exempt.

Philippines – PICCS

All the ingredients are listed or exempt.

New Zealand - NZIOC

All the ingredients are listed or exempt.

SECTION 16: Other information

SAFETY DATA SHEET: AD77 Plastic Magic**Abbreviations and acronyms
used in the safety data sheet**

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

**Classification abbreviations
and acronyms**

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

**Key literature references and
sources for data**

Supplier's information.

**Classification procedures
according to Regulation (EC)
1272/2008**

Flam. Liq. 2 - H225: On basis of test data. Eye Dam. 1 - H318: Calculation method.

Revision comments

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

Revision date

22/06/2021

SAFETY DATA SHEET: AD77 Plastic Magic

Version number 4.001

Supersedes date 22/06/2021

SDS number 51370

SDS status Approved.

Hazard statements in full H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H370 Causes damage to organs .

Signature John Bristow

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