

Safety Data Sheet

Universal Hardener– D2006

SDS Revision Date:

5/13/2024

1. Identification

1.1. Product identifier

Product Identity

Universal Hardener– D2006

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

Intended use

Commercial mirroring.

1.3. Details of the supplier of the safety data sheet

Company Name

Angel Gilding Ltd
1945 Gardner Rd.
Broadview IL 60155 USA

Emergency

24 hour Emergency Telephone

708-383-3340

Customer Service: Angel Gilding

708-383-3340

2. Hazard(s) identification

Label elements



Signal word DANGER

GHS Ratings

Flammable liquid	3	Flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$ (140°F)
Skin corrosive	3	Reversible adverse effects in dermal tissue Draize score: $\geq 1.5 < 2.3$
Carcinogen	2	Limited evidence of human or animal carcinogenicity
Reproductive toxin		Presumed, Based on experimental animals

GHS Hazards

H226	Flammable liquid and vapor
H316	Causes mild skin irritation
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	KEEP AWAY FROM HEAT/open flames/hot surfaces • No smoking.
P233	Keep container tightly closed.

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P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ ventilating equipment.
P242	Use only non- sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately contaminated clothing. Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation persists: Get medical advice/attention.
P370+P378	IN CASE OF FIRE: Use dry chemical (BC) or carbon dioxide (CO2) for extinction
P405	Store locked up.
P403+P235	STORE IN A WELL VENTILATED PLACE. Keep cool.
P501	Dispose of contents/container in accordance with Local, State and Federal Regulations

3. Composition/information on ingredients

Chemical Name	CAS number	Weight Concentration
n-Butyl acetate	123-86-4	10-20%
Xylenes (o-, m-, p- isomers)	1330-20-7	5-10%
Ethylbenzene	100-41-4	1-5%

4. First aid measures

PRIMARY ROUTES OF ENTRY:

Skin contact. Skin absorption. Inhalation. Ingestion. Eye Contact.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get medical attention immediately. Remove contact lenses if possible.

Skin Contact:

Flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention. Discard contaminated leather articles such as shoes and belt. Do not apply oils or ointments unless ordered by physician.

Inhalation:

Remove to FRESH air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

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Ingestion:

If fully conscious, give two glasses of water, then induce vomiting by touching the back of the throat with finger. Keep head below hips to prevent aspiration of liquid into lungs. CALL A PHYSICIAN IMMEDIATELY. Never induce vomiting or give anything by mouth to an unconscious victim.

NOTE TO PHYSICIANS:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Individuals experiencing breathing difficulties after exposure to vapor generated in aerosol applications should be observed for at least 48 hours in case delayed respiratory complications develop.

5. Fire-fighting measures

Flash Point: -32C (90F) **Lower Explosive Limit:** 1.0
Upper Explosive Limit:

Flammable Limits:

Highly flammable liquid and vapor (GHS Category 2)

Fire Extinguishing Media:

ALCOHOL FOAM - CO2 - DRY CHEMICAL FOAM - WATER FOG

Unusual Fire and Explosion Hazards:

Keep containers tightly closed. Isolate from heat, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Do not use when smoking or where electrical sparks or open flame is present.

Hazardous Combustion Products:

Burning can produce carbon-dioxide and/or carbon monoxide

Special Firefighting Procedures:

Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

Fire Equipment:

As in a fire, always wear self-contained breathing apparatus in pressure-demand (MSA/NIOSH approved or equivalent), and full protective gear

6. Accidental release measures

Spill and Leak Procedures:

Spill supervisor: Ensure clean-up personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Remove all ignition sources. Keep nonessential personal away from the contaminated area.

Small Spills:

Absorb spilled liquid with sorbent pads, socks, or other inert material such as vermiculite, sand or earth.

Large Spills:

Avoid run-off into sewers and ditches leading to waterways. Use only non-sparking tools and equipment. A vapor suppressing foam may be used. Approach the spill for upwind and place it in a suitable container. Disposal should be in accordance with Local, State and Federal Regulations.

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7. Handling and storage

Handling Precautions :

Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containers closed when not in use. Do not handle or store material near heat, sparks, open flames, or other sources of ignition. Store at room temperatures, 40 to 95 F (4 to 35 C).

Precautions to be taken in Handling and Storage: Grounding

When transferring, fill stem and container must be grounded and bonded. Store in a cool dry area with ventilation suitable for storing materials shown in section II. Keep away from heat, sparks and open flame. Do not cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition; they may explode and cause injury or death.

8. Exposure controls and personal protection

Chemical Name/CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
n-Butyl acetate 123-86-4	150 ppm TWA; 710 mg/m ³ TWA	200 ppm STEL 150 ppm TWA	NIOSH: 150 ppm TWA; 710 mg/m ³ TWA 200 ppm STEL; 950 mg/m ³ STEL
Xylenes (o-, m-, p-isomers) 1330-20-7	100 ppm TWA; 435 mg/m ³ TWA	150 ppm STEL 100 ppm TWA	Not established
Ethylbenzene 100-41-4	100 ppm TWA; 435 mg/m ³ TWA	20 ppm TWA Not established	N NIOSH: 100 ppm TWA; 435 mg/m ³ TWA 125 ppm STEL; 545 mg/m ³ STEL

Engineering:

Ensure processing (curing) ovens are properly vented to prevent the introduction of processing fumes into the work place. Use explosion proof equipment and good manufacturing practice.

Sufficient ventilation, in volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible exposure limit or ACGHI'S TLV limit.

Other Precautions: Provide respiratory protection against fumes generated during burning. Avoid prolonged contact with skin and breathing of vapors.

Protective Gear: Niosh / Osha approved respirator types suitable for materials in section II recommended. Approved airline type respirators or hoods recommended in confined areas. Wear protective gloves/clothing/eye/face as required.

Contaminated Gear: Take off immediately any contaminated clothing and wash it before reuse.

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9. Physical and chemical properties

Appearance:	Liquid dispersion	Odor:	Solvent
Vapor Pressure:	Not Applicable	Odor Threshold:	Not applicable
Vapor Density:	Heavier than air	pH	Not applicable
Specific Gravity:	1.07	Melting Point:	Not applicable
Freezing Point:	Not applicable	Solubility:	Not applicable
Boiling Range:	138 ° C	Flash Point:	32 ° C, 90 ° F
Evaporation Rate:	Slower than ether	Physical State:	Liquid
Autoignition Temperature	Not applicable	Decomposition Temperature	Not applicable
VOC: Actual	267 gr/ltr		

10. Stability and reactivity

Stability:

Components of this mixture are incompatible with the following materials:

No data found

This mixture is likely to exhibit the following combustions products:

No data found

Hazardous polymerization

Will not occur

11. Toxicological information

Mixture Toxicity: Inhalation Toxicity LC 50: 544mg/L

Component Toxicity: 100-41-4 Ethylbenzene
Oral LD50: 3,500 mg/kg (Rat) Inhalation LC50: 17 mg/L (Rat)

Exposure to this material may affect the following organs:

Eyes Central Nervous System Skin Respiratory System

Carcinogenicity:

The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
100-41-4	Ethylbenzene	1 to 5%	Ethylbenzene: IARC: Possible human carcinogen OSHA: listed

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12. Ecological information

Component Ecotoxicity

n-Butyl acetate	96 Hr LC50 Lepomis macrochirus: 100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 17 - 19 mg/L [flow-through] 72 Hr EC50 Desmodesmus subspicatus: 674.7 mg/L
Xylenes (o-, m-, p- isomers)	96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.661 - 4.093 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 13.5 - 17.3 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.1 - 16.5 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 19 mg/L; 96 Hr LC50 Lepomis macrochirus: 7.711 - 9.591 mg/L [static]; 96 Hr LC50 Pimephales promelas: 23.53 - 29.97 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 780 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: >780 mg/L; 96 Hr LC50 Poecilia reticulata: 30.26 - 40.75 mg/L [static] 48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L
Ethylbenzene	96 Hr LC50 Oncorhynchus mykiss: 11.0 - 18.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 7.55 - 11 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.1 - 15.6 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static] 48 Hr EC50 Daphnia magna: 1.8 - 2.4 mg/L 72 Hr EC50 Pseudokirchneriella subcapitata: 4.6 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: >438 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 - 11.3 mg/L [static]; 96 Hr EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L [static]

13. Disposal considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport information

	DOT	IMDG	IATA
14.1 UN/ID	UN1866	UN1866	UN1866
14.2 Proper shipping name	Resin solution, Flammable	Resin solution, Flammable	Resin solution, Flammable
14.3 Hazard Class	3	3	3
14.4 Packing Group	III	III	III

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Base & Top Coat Hardener – D2006

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15. Regulatory information

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

100-41-4 Ethylbenzene Carcinogen

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 40:

100-41-4 Ethylbenzene

1330-20-7 Xylenes (o-, m-, p- isomers)

EU Risk Phrases

R10: Flammable

Safety Phrases:

S16: Keep away from sources of ignition – no smoking

16. Other information

Health hazards	Flammability	<u>HMIS</u>	Physical hazard	Personal Protection
2	3		2	1
Prepared By	Angel Gilding Ltd			
Revision Date	May 13, 2024			

Disclaimer

The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge, current national legislation and guidelines. As the specific conditions of use of the product are outside the supplier's knowledge and control the user is responsible for ensuring that the requirements of relevant legislation are complied with. This SDS should not be construed as any guarantee of the technical performance or suitability for particular applications. UNLESS SUPPLIER AGREES OTHERWISE IN WRITING, SUPPLIER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. SUPPLIER WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

End of Safety Data Sheet