Material Safety Data Sheet

OJ3890 AWLWOOD MA GLOSS

Version Number 2 **Revision Date** 06/11/15

1. Product and company identification

Hazardous according to criteria of Australian WHS Regulations.
Classified as a Dangerous Good for transport according to the latest ADG code.

1.1. Product identifier AWLWOOD MA GLOSS

Product Code OJ3890

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

Intended use Refer Technical Data Sheet.
For professional use only.
This product is intended for use in the Yacht market.

Application Method Refer Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet
Importer or
Manufacturer

Akzo Nobel Pty Ltd.
8 Kellaway Place
Wetherill Park
New South Wales, 2164
Australia

Telephone No. (office hours) (02) 9616 6900
Fax No. (02) 9609 3910
1.4. Emergency telephone number (24 hour) 1800 680 071
For Poisons Advice telephone 131 126
To provide telephone consultation to medical professionals and the general public in cases of acute and chronic poisonings - 24 hours a day

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Flam. Liq. 3;H226	Flammable liquid and vapour.
Resp. Sens. 1;H334	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Aquatic Acute 3;H402	Harmful to aquatic life.

2.2. Label elements

Using the Toxicity Data listed in section 11 & 12 the product is labelled as follows.

Danger

H226 Flammable liquid and vapour.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

H402 Harmful to aquatic life.

AUH066 Repeated exposure may cause skin dryness or cracking.

AUH208 Contains Bis(pentamethyl-4-piperidyl)sebacate, Hydroxyphenyl-benzotriazole derivatives, Isocyanate prepolymer, Tosyl isocyanate. May produce an allergic reaction.

Poison Schedule: S6 Signal word POISON

Precautionary Phrases (P) listed below:

[Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P285 In case of inadequate ventilation wear respiratory protection.

[Response]:

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.

P370 In case of fire:

P378 Use alcohol resistant foam, CO2, powder, water spray for extinction. Do not use water jet.

[Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

[Disposal]:

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

2.3. Other hazards

This product contains no PBT/vPvB chemicals.

3. Composition/information on ingredients

This product contains the following substances that are classified hazardous according to the Australian WHS Hazardous Substances regulations:

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Isocyanate prepolymer **CAS Number: Not Available**	**25- <50**	**Resp. Sens. 1;H334**	**[1]**
1-Methoxy-2-propyl acetate **CAS Number: 0000108-65-6**	**25- <50**	**Flam. Liq. 3;H226**	**[1]**
n-Butyl acetate **CAS Number: 0000123-86-4**	**2.5- <10**	**Flam. Liq. 3;H226** **STOT SE 3;H336** **AUH066**	**[1][2]**
Hydroxyphenyl-benzotriazole derivatives **CAS Number: 0104810-48-2**	**<1**	**Skin Sens. 1;H317** **Aquatic Chronic 2;H411**	**[1]**

Tosyl isocyanate **CAS Number: 0004083-64-1**	**<1**	**Eye Irrit. 2;H319** **STOT SE 3;H335** **Skin Irrit. 2;H315** **Resp. Sens. 1;H334** **AUH014**	**[1]**
Bis(pentamethyl-4-piperidyl)sebacate **CAS Number: 0041556-26-7**	**<1**	**Skin Sens. 1;H317** **Aquatic Chronic 1;H410**	**[1]**

[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PBT-substance or vPvB-substance.

*The full texts of the Hazard (H) phrases are shown in Section 16.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence do not require reporting in this section.

4. First aid measures

4.1. Description of first aid measures

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 patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Skin Contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognised skin cleanser. Do NOT use solvents or thinners.

Eye Contact

Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.

Ingestion

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

No data available

4.3. Indication of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO_2, powder, water spray.

Do not use - water jet.

Note; Fire will produce dense black smoke. Decomposition products may be hazardous to health. Avoid exposure and use breathing apparatus as appropriate.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.

5.2. Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
Avoid exposure and use breathing apparatus as appropriate.

5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapour levels are below the Lower Explosive Limit before re-entering.

6.2. Environmental precautions

Do not allow spills to enter drains or watercourses.

6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

7. Handling and storage

7.1. Precautions for safe handling

Handling

Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in processes in which this product is used.

Examination of lung function should be carried out on a regular basis on persons spraying this preparation.
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In Storage

Handle containers carefully to prevent damage and spillage.

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 re-opening partly used containers.

Naked flames and smoking should not be permitted in storage areas. It is recommended that fork lift trucks and electrical equipment are protected to the appropriate standard.

This product contains solvents. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Areas of storage, preparation and application should be ventilated to prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from the following materials: oxidising agents, strong alkalis, strong acids.

Avoid skin and eye contact. Avoid inhalation of vapours and spray mists. Observe label precautions. Use personal protection as shown in section 8.

Smoking, eating and drinking should be prohibited in all preparation and application areas.

Never use pressure to empty a container; containers are not pressure vessels.

There are no exposure scenarios, see details in section 1.

7.3. Specific end use(s)

Store in a well ventilated, dry place away from sources of heat and direct sunlight.

Store on concrete or other impervious floor, preferably with bunding to contain any spillage. Do not stack more than 3 pallets high.

Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in the original container or one of the same material.

Prevent unauthorised access.

All sources of ignition (hot surfaces, sparks, open flames etc) should be excluded from areas of preparation and application. All electrical equipment (including torches) should be protected (Ex) to the appropriate standard.

The product may charge electrostatically. Always use earthing leads when pouring solvents and transferring product. Operators should wear clothing which does not generate static (at least 60% natural fibre) and antistatic footwear; floors should be of conducting type.

8. Exposure controls and personal protection

8.1. Control parameters

From Australia's Hazardous Substance Information System (HSIS)
For detailed information refer to the HSIS web site (http://hsis.safeworkaustralia.gov.au/).

Material	Short term (15m ave STEL)		Long term (8hr TWA)		Comments
	ppm	mg/m³	ppm	mg/M3	
n-Butyl acetate	**200**	**950**	**150**	**713**	
Tosyl isocyanate	**-**	**0.07**	**-**	**0.02**	

Chemicals classified as hazardous accoring to WHS regulations may have a notification alongside the exposure standard. If such a notification is necessary, it will appear in the far right hand column. The legend is as follows:

(P) Peak exposure limit
(R) Suppliers Recommended Limit
(Sk) There is a risk of absorption through unbroken skin
(Sen) Sensitiser
(Cat1) Category 1 - established human carcinogen
(Cat2) Category 2 - probable human carcinogen
(Cat3) Category 3 - substances suspected of having carcinogenic potential.

There is no biological limit allocated.

DNEL/PNEC values

No Data Available

8.2. Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.

Eye Protection

Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids. Eyewear should comply with AS/NZS1337.

Wear a full face shield if mixing or pouring operations pose a risk of splashes.

An eye wash station is suggested as a good work place practice.

Skin Protection

Gloves of an appropriate material should be worn during mixing and application. Nitrile or PVC gloves are generally recommended for products containing solvents.

Other

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. Barrier creams may help to protect areas which are difficult to cover such as the face and neck. They should however not be applied once exposure has occurred. Petroleum jelly based types such as Vaseline should not be used. All parts of the body should be washed after contact.

Respiratory Protection

In Liquid, Paste or Atomised form (e.g. Spray Application), workers must wear respirators with a filter Type A (Organic vapour) approved in accordance with AS/NZS 1716.
Provision of other controls such as exhaust ventilation should be considered if practical.
If applying large volumes (>100L) and If there is not sufficient ventilation or if there is a confined space, an Air Fed Respirator is strongly recommended.
In Solid or Dust form (e.g. Sanding Cured product) workers must wear a Class P1 Particulate filter mask in accordance with AS/NZS1716. An Air Fed Respirator is strongly recommended.

Thermal hazards

No Data Available

9. Physical and chemical properties

Colour	Light Coloured Liquid
Odour	Smell of Solvent
Odour threshold	Not Measured
pH	N/A
Melting point / freezing point (°C)	Not Measured
Initial boiling point and boiling range (°C)	126.5
Flash Point (deg C closed cup)	40
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: 1.5 (1-Methoxy-2-propyl acetate) Upper Explosive Limit: 8 (n-Butyl acetate)
Vapour pressure (Pa)	Not Measured

Vapour Density	Heavier than air.
Specific Gravity	1.00
Solubility in Water	Immiscible
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Autoignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	N/A

9.2. Other information

No further information

10. Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Chemical stability
Stable under recommended storage and handling conditions (see section 7).

Conditions to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid possible exothermic reactions.

Incompatible materials
Strong acids, bases, oxidising agents.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke.

Hazardous reactions
None.

10.3. Possibility of hazardous reactions

May react exothermically with: oxidising agents, strong alkalis, strong acids.

10.4. Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Keep away from the following materials: oxidising agents, strong alkalis, strong acids.

10.6. Hazardous decomposition products

Fire will produce dense black smoke. Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
Avoid exposure and use breathing apparatus as appropriate.

11. Toxicological information

Acute toxicity

Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed

through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible irreversible damage.

Based on the properties of the isocyanate content of this product, respiratory exposure may cause acute irritation and/or sensitisation 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. Persons with a chronic or recurrent respiratory disease should not be employed in any process in which these products are used.

The preparation has been assessed using the Acute Toxicity Data listed below, and classified for toxicological hazards accordingly. See section 2 for details.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapour LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr
1-Methoxy-2-propyl acetate - (108-65-6)	8,532.00, Rat	5,000.00, Rabbit	Not Applicable	Not Applicable
Bis(pentamethyl-4-piperidyl)sebacate - (41556-26-7)	2,615.00, Rat	Not Applicable	Not Applicable	Not Applicable
Hydroxyphenyl-benzotriazole derivatives - (104810-48-2)	2,000.00, Rat	2,000.00, Rat	Not Applicable	Not Applicable
Isocyanate prepolymer - (Not Available)	Not Applicable	Not Applicable	Not Applicable	Not Applicable
n-Butyl acetate - (123-86-4)	10,700.00, Rat	17,600.00, Rabbit	Not Applicable	Not Applicable
Tosyl isocyanate - (4083-64-1)	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Item	Category	Hazard
Acute Toxicity (mouth)	Not Classified	Not Applicable
Acute Toxicity (skin)	Not Classified	Not Applicable
Acute Toxicity (inhalation)	Not Classified	Not Applicable
Skin corrosion/irritation	Not Classified	Not Applicable
Eye damage/irritation	Not Classified	Not Applicable
Sensitization (respiratory)	1	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Sensitization (skin)	Not Classified	Not Applicable
Germ toxicity	Not Classified	Not Applicable
Carcinogenicity	Not Classified	Not Applicable
Reproductive Toxicity	Not Classified	Not Applicable
Specific target organ systemic toxicity (single exposure)	Not Classified	Not Applicable
Specific target organ systemic Toxicity (repeated exposure)	Not Classified	Not Applicable
Aspiration hazard	Not Classified	Not Applicable

12. Ecological information

12.1. Toxicity

The preparation has been assessed according to the GHS criteria and is classified as dangerous for the environment, using the toxicity data listed below.

There are no data available on the product itself.

The product should not be allowed to enter drains or water courses.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Isocyanate prepolymer - (Not Available)	Not Applicable	Not Applicable	Not Applicable
1-Methoxy-2-propyl acetate - (108-65-6)	100.00, Salmo gairdneri	500.00, Daphnia magna	Not Applicable
n-Butyl acetate - (123-86-4)	18.00, Pimephales promelas	32.00, Artemia salina	674.70 (72 hr), Scenedesmus subspicatus
Hydroxyphenyl-benzotriazole derivatives - (104810-48-2)	2.80, Pisces	3.80, Daphnia magna	9.00 (72 hr), Algae
Tosyl isocyanate - (4083-64-1)	Not Applicable	Not Applicable	Not Applicable
Bis(pentamethyl-4-piperidyl)sebacate - (41556-26-7)	1.00, Lepomis macrochirus	20.00, Daphnia magna	Not Applicable

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available

13. Disposal considerations

13.1. Waste treatment methods

Do not allow into drains or water courses. Wastes and empty containers should be disposed of in accordance with State and Federal regulations.

Using information provided in this data sheet advice should be obtained from the local Waste Regulation Authority as to whether special waste regulations apply.

14. Transport information

14.1. UN number 1263

14.2. UN proper shipping name Paint

14.3. Transport hazard class(es)

Road and Rail Transport (ADG7) 1263, Paint, 3, III, .3Y

IMDG reference : **Class/Div** 3 **Sub Class**

Ems F-E,S-E

ICAO/IATA **Class** 3 **Sub Class**

14.4. Packing group III

14.5. Environmental hazards

Road and Rail Transport (ADG7) Environmentally Hazardous: No

IMDG reference : Marine Pollutant: No

14.6. Special precautions for user

No further information

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

15. Regulatory information

This product and all its components complies with the chemical and transport regulations from the country listed in section 1.3.
Other regulatory information specific to the hazardous chemical(s):

None noted.

16. Other information

Contact Point:
Ask for Marine, Protective and Yacht Coatings Regulatory Affairs Manager
Ph: 0407 119 025
The information on this Safety Data Sheet (SDS) is based upon the present state of our knowledge and on current State and Federal laws. The product should not be used for purposes other than shown in the SDS without first obtaining written advice. It is always the responsibility of the user to take all necessary steps to meet the demands of applicable legislation.

The information in this SDS is required according to State and Federal WHS legislation (as amended). Each user should read the SDS and consider the information of how this product is used and handled in cojunction with other products and components.
The information provided in this SDS 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, unless speciifed in the text.
The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and not to be considered a warranty or quality specification.
This Safety Data Sheet is valid for 5 years from the revisd date on page 1.

The full text of the Hazard (H) phrases appearing in section 2 & 3 are:

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

H336 May cause drowsiness and dizziness.

H341 Suspected of causing genetic defects.

H360 May damage fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

This SDS is valid for 5 years from the revised date on page 1.
The revision date is in American format (e.g. MM/DD/YY).

End of document