

**Material Safety Data Sheet**

PC-0356

DEVTHANE 379 JOHN DEERE GREEN

Version Number 1 Revision Date 08/02/11

**1. Product and company identification**

Hazardous according to criteria of the Australian Safety and Compensation Council.

Classified as a Dangerous Good for transport.

Product Name	DEVTHANE 379 JOHN DEERE GREEN
Product Code	PC-0356
Intended use	This product is intended for use in the marine and protective coatings markets. Refer Technical Data Sheet. For professional use only.
Application Method	Apply by brush and roller for small areas. Airless spray for large areas. Refer Technical Data Sheet.
Company Name	Akzo Nobel Protective Coatings 686 Rosebank Road Avondale Auckland 7 New Zealand
Telephone No.	(09) 828 3009
Fax No.	(09) 828 1129
24 hour Emergency Telephone No.	0800 503 008
For Poisons Advice telephone	(03) 479 7248 For Advice to Doctors & Hospitals only

**2. Hazard Identification**

R10 - Flammable.

R66 - Repeated exposure may cause skin dryness or cracking.

R67 - Vapours may cause drowsiness and dizziness.

S23 - Do not breathe vapour/spray.

S51 - Use only in well-ventilated areas.

Poison Schedule: S5 Signal word CAUTION

**HSNO Number:HSR002662**

**Group Standard: Surface Coatings and Colorants (Flammable)  
(HSNO 3.1C Classification)**

Further information is given in section 11.



All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Akzo Nobel however makes no warranty as to the accuracy of and/or sufficiency of such information.



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**3. Composition / information on ingredients**

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations. Users are referred to the Australian Safety and Compensation Council (ASCC) website [www.ascc.gov.au](http://www.ascc.gov.au) for more information.

Ingredient	CAS Number	Concentration Range%	Symbol (s)	Risk phrases (*)
Polyacrylate Containing Hydroxyl Groups	Not Defined	25 - 50		
n-Butyl acetate	0000123-86-4	10 - 25		R10, R66, R67
2,4-Pentaandion	0000123-54-6	1 - 2.5	Xn	R10, R22
Hydroxyphenyl-benzotriazole derivatives	0104810-48-2	<1	Xi,N	R43, R51/53
Bis(pentamethyl-4-piperidyl)sebacate	0041556-26-7	<1	Xi,N	R43, R50/53
Methyl pentamethyl-4-piperidyl sebacate	0082919-37-7	<1	Xi,N	R43, R50/53
2-Methoxy-1-propanol acetate	0070657-70-4	<1	Xi	R61,R37
Orthophosphoric Acid	0007664-38-2	<1	C	R34

Other ingredients in this product have been determined not to be hazardous

\* The full text of the above phrases are shown in section 16.

**4. 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.

**Eye Contact**

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

**Skin Contact**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognised skin cleanser. 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**

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, 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.

**6. Accidental release measures**

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.

Ventilate the area to 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 relevant State and Federal 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 relevant Environment Protection Agency.

Empty containers may contain product residues, including flammable or explosive vapours. Do not cut, puncture or weld on or near containers. All label warnings must be observed until the containers have been cleaned or reconditioned.



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**7. Handling and storage****Handling**

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.

**In Storage**

Handle containers carefully to prevent damage and spillage.

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.

**In Use**

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.

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.

**Storage**

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.

The requirements of AS/NZS1940 (Storage and Handling of Flammable and Combustible Liquids) apply to all products with a Flash Point less than 61C. Refer to this standard and to State Dangerous Goods Storage and Handling regulations.



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## 8. Exposure controls and personal protection

**Engineering Measures**

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.

**Exposure Limits**

From the ASCC "Exposure Standards for Atmospheric Contaminants in the Occupational Environment". For detailed information refer to the ASCC web site ([www.ascc.gov.au](http://www.ascc.gov.au)).

Material	Short term (15 min. ave)		Long term (8hr time weighted average)	
	ppm	mg/M3	ppm	mg/M3
n-Butyl acetate	200	950	150	713
Orthophosphoric Acid	-	3	-	1

Chemicals classified as hazardous by the ASCC 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.

**Personal Protection**
**Respiratory Protection**

When concentrations exceed the exposure limits shown above workers must wear appropriate respirators approved in accordance AS/NZS1716. Provision of other controls such as exhaust ventilation should be considered if practical.

**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.

## Hand Protection

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

## Skin Protection

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.



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**9. Physical and chemical properties**

<b>Physical State</b>	Liquid
<b>Colour</b>	Green
<b>Flash Point (deg C closed cup)</b>	27
<b>Autoignition temperature</b>	315
<b>Viscosity (cSt)</b>	N/A
<b>Specific Gravity</b>	1.274
<b>Solvent Weight %</b>	34.83
<b>Vapour Density</b>	Heavier than air.
<b>pH</b>	Not Applicable
<b>Lower Explosive Limit (%v/v air)</b>	1.0
<b>Solubility in Water</b>	Immiscible
<b>R.A.Q. to ventilate to 10% of the LEL (M3/l)</b>	80.82
<b>Odour</b>	Smell of Solvent

**10. Stability and reactivity****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.

**11. Toxicological information**

There are no data available on the product itself.

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

reversible damage.



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12. Ecological information

There are no data available on the product itself.

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

13. Disposal considerations

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

Transport only in accordance with the following regulations:

Road and Rail Transport 1263, Paint, 3, III, .3Y

IMDG reference :	Class/Div.	3	Subsidiary Class
	Proper Shipping Name	Paint	
	UN No.	1263	MFAG
	EMS	F-E,S-E	
	Packaging Group	III	
	Marine pollutant	No	

ICAO/IATA	Shipping Name	Paint
	Class	3
	UN No.	1263
	Packaging Group	III



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15. Regulatory information
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The following information is provided in accordance with ASCC guidelines for the labelling of Hazardous Substances.

Symbol(s)

Contains;

R. Phrases;

R10 - Flammable.

R66 - Repeated exposure may cause skin dryness or cracking.

R67 - Vapours may cause drowsiness and dizziness.

S. Phrases;

S23 - Do not breathe vapour/spray.

S51 - Use only in well-ventilated areas.

P. Phrases;



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16. Other information
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Contact point:

Industrial Coatings HSE Department - Health and Safety Advisor  
+61 (0)3 9313 4555

Marine & Protective Coatings Regulatory Affairs Manager  
+61 (0)3 8336 8487

The information on this MSDS 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 product data sheet 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 Material Safety Data Sheet is required according to State and Federal legislation and following ASCC guidance (as amended).

The full text of the R phrases appearing in section 3 is:

R22 - Harmful if swallowed.

R34 - Causes burns.

R43 - May cause sensitisation by skin contact.

R51 - Toxic to aquatic organisms.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R53 - May cause long-term adverse effects in the aquatic environment.

R66 - Repeated exposure may cause skin dryness or cracking.

R67 - Vapours may cause drowsiness and dizziness.



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