

MATERIAL SAFETY DATA SHEET

acc. 91/155/EC

Page: 1 of 2

1. Identification of the Product and the Company

Brand name : **VS 5 series**
Quality number : General
Date : 04-04-2003
Revision :
Date of Revision :
Manufacturer : Royal Van Son BV
P.O. Box 44
1200 AA Hilversum, Holland
Dealer :
Information: Telephone : +31 35 6884411
Fax : +31 35 6884404

2. Composition / Information on Ingredients

Description : Printing ink, offset, oxidative drying

<u>Substance</u>	<u>Weight%</u>	<u>CAS-NR.</u>	<u>R-Phrase</u>	<u>S-Phrase</u>	<u>MAC-Value (mg/m³)</u>	
					<u>MAC-TWA*</u>	<u>MAC-C**</u>
Organic Pigments	15 - 30					
Synthetic Resins	20 - 40					
Vegetable oils	18 - 28					
Mineral oils	10 - 20					
Poly Ethylene Wax	2 - 5					
Drier	1 - 3					

TWA*=Time Weighed Average 8h/day C** = Ceiling

3. Hazard Identification

Hazards to Human Health : Can cause skin and eye irritation.
After Inhalation : -
After contact with Skin : Prolonged contact may cause irritation
After contact with Eyes : Direct contact can cause irritation
After Swallowing : -

4. First Aid Measures

General Directions : Remove all contaminated clothing.
In case of Inhalation : -
In case of contact with Skin : Wash with water and soap.
In case of contact with Eyes : Flush eye(s) with plenty of water for at least 15 minutes. If irritation persist, seek medical attention
In case of Swallowing : Wash out mouth. Do not stimulate vomiting. Seek medical attention

5. Fire Fighting Measures

Suitable Extinguishing Media : Dry and foam agents, Carbon dioxide (CC₂), water mist.

6. Accidental Release Measures

Personal Precautions : Rubber gloves.
Environmental Protection : Do not allow material to enter drains or water courses
Spill Control : Sweep or scrape up and collect the material into appropriate, labelled containers

7. Handling and Storage

Handling : -
Fire and Explosion Precautions : Store firesafe, separate from oxidative products
Storage : Cool, dry place. Protect from cold and hot temperatures

8. Exposure Controls / Personal Protection

Additional Directions : -

Personal Protection Media

Respiratory Protection : No special attention.
Hand Protection : Rubber gloves.
Eyes Protection : No special attention.
Body Protection : Wear protective clothing.
Hygiene Measures : Maintain general body hygiene.

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Page: 2 of 2

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9. Physical and Chemical Properties

						Method
	pH-Value	(20 °C)	:	neutral		
	Viscosity	(20 °C)	:	400 - 500	DPa.s	
	Boiling Point/Range	(°C)	:	280 - 310		
Appearance	: Paste					
Colour	: Various					
Odour	: Mild					
	Melting Point/Range	(°C)	:	NA		
	Flash Point	(°C)	:	> 110		Closed Cup
	Autoignition Temperature	(°C)	:	-		
	Explosion Limits in Air	Lower	:	-	Vol.%	
		Upper	:	-	Vol%	
	Vapour Pressure	(20 °C)	:	< 0.1	mbar	
	Density	(20 °C)	:	± 1100	kg/m ³	
	Solubility in Water	(20 °C)	:	not	g/l	

10. Stability and Reactivity

Circumstances to avoid	:	Do not smoke or eat, when using the product. Separate from possible sources of ignitor
Materials to avoid	:	None known.
Dangerous Reactions	:	None known.
Hazardous Decomposition Products	:	Carbon oxides , metal and halogen components may be released on thermal decompositor

11. Toxicological Information

Acute Toxicity

Oral LD ₅₀ -Value	:	ND	mg/kg _(rat)
Other Directions	:	None	

12. Ecological Information

Fish Toxicity (LC ₅₀)	:	ND	mg/l
Bacteria Toxicity (EC ₅₀)	:	ND	mg/l
<u>Additional Ecological Directions</u>	:	None	

13. Disposal Considerations

Material Disposal	:	Only if necessary. Disposal of material to be carried out in accordance with local laws an regulations for chemical waste
Uncleaned Container Disposal	:	Disposal to be carried out in accordance with local laws and regulations for chemical waste

14. Transport Information

	<u>Road Transport ADR / RID</u>	<u>Sea Transport IMO / IMDG</u>	<u>Air Transport ICAO / IATA</u>
Class	:		
Figure	:		
UN-Number	:		
Packing Group	:		
Marine Pollutant	:		
Proper Shipping Name	:		
Remark	:	Not classified	Not classified

15. Regulatory Information

Classification according to Directive 67/548/EC	:	No
R-Phrase(s)	:	
S-Phrase(s)	:	
Labelling	:	
EINECS/TOSCA Status	:	All components are included in these inventories

16. Other Information

The information herein given is in good faith. No warranty, expressed or implied is made. Any use of these data and informatic must be determined by the user to be in accordance with applicable Federal, State and Local laws and regulation:
The information contained in this confidential form is submitted solely for your organisation's internal use

NA=**Not** Applicable, NC=**Not** Classified, ND=**Not** Determined.