

SAFETY DATA SHEET - REGULATIONS 1994 (CHIP 2)

WE urge the customer receiving this Material Safety Data Sheet to study it carefully to become aware of hazards, if any, of the product involved.

In the interests of safety you should:

- 1) notify your employees, agents and contractors of the information on this sheet,
- 2) furnish a copy to each of your customers for the product, and
- 3) request your customers to inform their employees and customers as well.

1) Identification and Company

Date revised: 10 02 03	Revision No: 12 Compiler: Mr F M Jachim
Manufacturer or Supplier	Parasol Inc.
Product Name:	VariBond
Chemical Characterisation:	Solvent based paint for uPVC & other plastic application.
Form	Liquid - 1 litre, 5 litre cans and 20 litre. pails.
Colour	Various
Odour	Characteristic odour

2) Composition

Material	CAS No:	% Content	Risk	Symbol	Risk Phrases
Methyl Ethyl Ketone	78-93-3	5.30		Xi	11,36,38
Methyl Iso Butyl Ketone	108-10-1	58.06		Xi	11,36,37
Cyclohexanone	108-94-1	12.90		Xn	10,20
1-Methoxy 2-Propyl Acetate	108-65-6	3.30		Xi	10,36
Ethyl 3-Ethoxypropionate	763-69-9	4.96		Xi	36,38
Vinyl Acrylic Ester Copolymer	9003-22-9	3.98		Xi	36
Acrylic Copolymer	Not Required	9.49		Non-Haz	None
Methyl Methacrylate	80-62-6	0.12		Xi	11,36,37,38,43
Butyl Benzyl Phthalate	85-68-7	0.99		Xi	20, 36,38

1,2,2,6,6 Pentamethylpiperidine	79-55-0	0.20	Xi	43
Cellulose Acetate Butyrate	9004-36-8	0.50	Xi	36,37,38
Polyether Modified Polysiloxane	Methyl 7803-62-5	0.20	Xi	36,38
Pigments	Not Required	0.00< 20.00	Non-Haz	None

3) Hazards Identification

Physical	Flammable. R-10
Adverse Human Effects	<p>Can enter the body by inhalation, ingestion, or through the skin. Irritates the eyes, skin and respiratory tract.</p> <p>Liquid removes the skin's natural oils.</p> <p>Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.</p>

4) First Aid Measures

Inhalation	<p>Move the exposed person to fresh air at once.</p> <p>Get medical attention immediately.</p> <p>For breathing difficulties oxygen may be necessary.</p> <p>If rapid recovery does not follow, apply artificial respiration.</p>
Ingestion	<p>Do not induce vomiting.</p> <p>Obtain medical attention immediately.</p>
Skin	<p>Wash the skin immediately with soap and water.</p> <p>Use a moisturiser.</p> <p>Get medical attention if any discomfort continues.</p>
Eye	<p>Flush with plenty of water for several minutes.</p> <p>Make sure to remove any contact lenses before rinsing.</p> <p>Continue to rinse for at least 15 minutes.</p> <p>If irritation persists, refer for medical attention.</p>

5) Fire Fighting Measures

Extinguishing Media	Use a dry chemical powder, foam or carbon dioxide extinguisher, sand or earth. Do not use water in a jet.
Special Fire Fighting Procedures	Containers close to fire should be removed or cooled with water. Use water to keep fire-exposed containers cool.
Unusual Fire & Explosion Hazards	Risk of explosion if heated.

6) Accidental Release Measures

Spillage/Leakage/Gas Leakage	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Wear the necessary protective equipment. Prevent the liquid from spreading with sand or sawdust. Shovel up and remove to a safe place. Flush contaminated area with water. If leakage cannot be stopped evacuate area. Ventilate well. Do not contaminate water sources or sewer. Shovel up and remove to a safe place. Extinguish naked flames. Ensure adequate ventilation. Wear protective clothing and breathing apparatus as outlined below.
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7) Handling and Storage

Handling Precautions	<p>Ensure adequate positive ventilation to keep concentrations well below hazard levels.</p> <p>Keep away from heat, sparks and open flames.</p>
Storage Precautions	<p>Containers must not be exposed to direct sunlight or temperatures above 50°C.</p> <p>Store away from oxidising agents.</p> <p>Avoid exposure to sources of heat or ignition.</p> <p>Keep containers tightly closed.</p> <p>Avoid build up of static electricity.</p>

8) Exposure Controls and Personal Protection

Name	CAS No.	ST D	LT EXP (8 hrs)	ST EXP (15 min)
Methyl Ethyl Ketone	78-93-3	OE S	200 ppm (SK)	300 ppm (SK)
Methyl Isobutyl Ketone	108-10-1	OE S	50 ppm (SK)	100 ppm (SK)
Cyclohexanone	108-94-1	OE S	25 ppm (SK)	100 ppm (SK)
Methyl Methacrylate	80-62-6	OE S	50 ppm (SK)	100 ppm (SK)

Comments	<p>OES = Occupational Exposure Standard</p> <p>SUP = Supplier's Recommendation</p> <p>SK = Can be absorbed through skin</p>
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Protective Equipment	<p>Wear goggles giving complete protection to eyes.</p> <p>Wear nitrile rubber gloves.</p> <p>Wear overalls.</p>
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Avoid contact with liquid.

Wear an approved breathing apparatus when concentrations above 100 ppm are present.

Ventilation	Provide adequate general and local exhaust ventilation.
Respirators	No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL).
Protective Gloves	Use protective nitrile rubber gloves.
Eye Protection	Use approved safety goggles or face shield.
Protective Clothing	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
Industrial Hygiene Work Routine	DO NOT SMOKE IN WORK AREA. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. No eating or drinking while working with this material.

9) Physical and Chemical Properties

Appearance	Liquid - various size containers.
Odour	Organic solvents
Colour	Various
Change in Physical State	Melting point below - 15°C Boiling point >80°C
Density	0.885 g/cm ³ average
Vapour Pressure	(40°C) 201 mbar
Viscosity	(20°C) 15-16 sec's Ford No 4 Cup
Solubility in water	(20°C) less than 100 g/l
pH Value	(20°C) not applicable
Flash Point	22°C Closed Cup
Ignition Temperature	> 300°C

Flammability Limit (upper %) 11.5

Flammability Limit (lower %) 1.3

10) Stability and Reactivity

Thermal Decomposition	Thermal decomposition will occur.
Hazardous Decomposition	
Products	Fire creates: Vapours / Gases / Carbon Monoxide (CO) & Carbon dioxide (CO ₂) Fumes
Hazardous Reactions	No hazardous decomposition products when stored and used correctly.
Conditions To Avoid	Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents, strong alkali, and strong mineral acids.

11) Toxicological Information

Health Hazards, General	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	Gas or vapour I high concentrations may irritate respiratory system. Gas or vapour displaces oxygen available for breathing (asphyndent).
Skin	Product has a de-fatting effect on the skin. Prolonged or repeated exposure may cause severe irritation.
Eyes	Irritating to the eyes. Spray and vapour in the eyes may cause irritation and smarting. May cause severe irritation to eyes.
Route of entry	Inhalation. Skin and /or eye contact.

12) Ecological Information

Do not allow to escape into water, wastewater drains or soil.

13) Disposal Considerations

Empty containers must not be burned because of explosion hazard.

Dispose of in accordance with the Local Authority requirements.

14) Transport Information

LITRES:

ADR:

ADR:	UN Number	1263
ADR:	Proper Shipping Name	Paint
ADR:	Class	3
ADR:	Packing Group	II
ADR:	Classification Code	F1
ADR:	Transport Category	2
ADR:	Hazard Identification Number	33

Shipping:

IMDG:	UN Number	1263
IMDG:	Proper Shipping Name	Paint
IMDG:	Class	3
IMDG:	Packing Group	II
IMDG:	EmS	F-E, S-E

Air Transport:

IATA:	UN Number	1263
IATA:	Proper Shipping Name	Paint
IATA:	Class	3
IATA:	Packing Group	II
IATA:	Packing Instruction	305

15) Regulatory Information

Risk Phrases

R-10	Flammable
R-11	Highly Flammable.
R-20	Harmful by inhalation.
R-36	Irritating to eyes.
R-37	Irritating to respiratory system.
R-38	Irritating to skin.
R-41	Risk of serious damage to eyes.
R-43	May cause sensitisation by skin contact.
R-65	Harmful. May cause lung damage if swallowed.
R-66	Repeated exposure may cause skin dryness or cracking.
R-67	Vapours may cause drowsiness and dizziness.

Safety Phrases

S-2	Keep out of reach of children.
S-16	Keep away from heat and sources of ignition.
S-21	No Smoking.
S-23	Do not breathe vapour/spray.
S-24	Avoid contact with skin.
S-25	Avoid contact with eyes.
S-26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S-37	Wear suitable gloves.
S-51	Use only in well ventilated areas.

Regulations 1994 (CHIP 2)

Chemicals (Hazard Information and Packaging for Supply)

Regulations 1994 (CHIP 2) Regulation 6

Chemicals (Hazard Information and Packaging for Supply)

(Amendment) Regulations 1996 (CHIP 96)

Chemicals (Hazard Information and Packaging for Supply)

(Amendment) Regulations 1997 (CHIP 97)

Chemicals (Hazard Information and Packaging for Supply)

(Amendment) Regulations 1998 (CHIP 98)

Chemicals (Hazard Information and Packaging for Supply)

(Amendment) Regulations 1999 (CHIP 99)

Chemicals (Hazard Information and Packaging for Supply)

(Amendment) (No. 2) Regulations 1999 (CHIP 99(2))

IATA - Dangerous Goods Regulations

IMDG - International Maritime Dangerous Goods Code

ADR - Dangerous Goods Code

UK Publication References:

Approved Guide to the Classification and Labelling of
Substances and Preparations Dangerous for Supply.

(Guidance on Regulations) (Fourth Edition)

Safety Data Sheets for Substances and Preparations Dangerous for Supply.
(Approved Code of Practice) (Second Edition)

Approved Supply List - Information Approved for the

Classification and Labelling of Substances and Preparations Dangerous for
Supply. (Fifth Edition)

Carriage of Dangerous Goods - Guidance for Consignors of Dangerous
Goods.

Occupational Exposure Limits.

UK Environmental References:

Control of Pollution (Special Waste Regulations) Act

Rivers (Prevention of Pollution) Act

UK Statutory References:

Chemicals (Hazard Information and Packaging for Supply)

16) Other Information

Emergency Action

Notify Police and Fire Brigade immediately.

17) Disclaimer

Disclaimer

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in accordance with EU Directives