PARASOL inc.
www.parasolinc.com

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: 11 02 03 **Revision No:06 Compiler: Mr F M Jachim**

Manufacturer or Supplier:	**Parasol Inc.**
Product Name:	**RubberBond**
Chemical Characterisation:	Solvent based paint for rubberised materials.
Form	Liquid - 1 litre, 5 litre cans and 20 litre. containers.
Colour	Various
Odour	**Characteristic odour**

2) Composition

Material	CAS No:	% Content Risk	Symbol	Risk Phrases
Methyl Ethyl Ketone	78-93-3	37.00	**Xi**	11,36,66,67
Methyl Isobutyl Ketone	108-10-1	19.40	Xn	11,20,36,37,66
Ethyl Acetate	141-78-6	19.40	Xi	11,36,66,67
Xylene	1330-20-7	7.43	Xn	10,20,21,38
Ethylbenzene	100-41-4	1.67	Xn	11,20
Chlorobenzene	108-90-7	0.14	Xn	10,20,51,53
Toluene	108-88-3	0.01 MAX.	Xn	11,20
Isobutanol	78-83-1	1.22	Xi	10,37,38,41,67
Butyl Benzyl Phthalate	85-68-7	2.00	Xi	20, 36,38
Cellolose Acetate Butyrate	9004-36-8	0.30	Xi	36,37,38
Chlorinated Polyolefin	68609-36-9	2.50	None	None

Epoxidized Oil	61789-01-3	0.14	None	None
Micronized Polyethylene Wax	9002-88-4	1.00	Non-Haz	None
Amorphous Silica	7631-86-9	0.20	Non-Haz	None
Acrylic Polymer	Not Required	1.99	Non-Haz	None
Polyurethane Polymer	Not Required	5.40	Non-Haz	None
Surface Active Agent	95-63-3		Xn	10,20,36,37,38
Surface Active Agent	64742-47-8		Xn	65
Surface Active Agent	647421-82-1	0.20	Xn	65
Surface Active Agent	64742-94-5		Xn	65
Surface Active Agent	64747-49-0		Xn	11,51,53,65
Pigments	Not Required	0.01< 20.00	Non-Haz	None

3) Hazards Identification

Physical — Highly Flammable. R-11

Adverse Human Effects — Can enter the body by inhalation, ingestion, or through the skin. Irritates the eyes, skin and respiratory tract.

Liquid removes the skin's natural oils.

Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

4) First Aid Measures

Inhalation — Move the exposed person to fresh air at once.

Get medical attention immediately.

For breathing difficulties oxygen may be necessary.

If rapid recovery does not follow, apply artificial respiration.

Ingestion — Do not induce vomiting.

Obtain medical attention immediately.

Skin — Wash the skin immediately with soap and water.

	Use a moisturiser. Get medical attention if any discomfort continues.
Eye	Flush with plenty of water for several minutes. Make sure to remove any contact lenses before rinsing. Continue to rinse for at least 15 minutes. If irritation persists, refer for medical attention.

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. Vapours may cause a flash fire or ignite explosively. Vapours may travel considerable distance to a source of ignition and flash back. Static electricity can build-up during the handling or mixing of the non-polar hydrocarbon solvents such as xylene or toluene.

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.

7) Handling and Storage

Handling Precautions	Ensure adequate positive ventilation to keep concentrations well below hazard levels. Keep away from heat, sparks and open flames. Static electricity may result in build-up, which may cause a flash fire or an explosion.
Storage Precautions	Containers must not be exposed to direct sunlight or temperatures above 50°C. Store away from oxidising agents. Avoid exposure to sources of heat or ignition. Keep containers tightly closed.

8) Exposure Controls and Personal Protection

Name	CAS No.	STD	LT EXP (8 hrs)	ST EXP (15 min)
Methyl Ethyl Ketone	78-93-3	OES	200 ppm (SK)	300 ppm (SK)
Methyl Isobutyl Ketone	108-10-1	OES	50 ppm (SK)	75 ppm (SK)
Ethyl Acetate	141-78-6	OES	400 ppm (SK)	No Data

Isobutanol	78-83-1	OES	50 ppm (SK)	75 ppm (SK)
Xylene	1330-20-7	OES	100 ppm (SK)	150 ppm (SK)
Toluene	108-88-3	OES	50 ppm (SK)	75 ppm (SK)
Chlorobenzene	108-90-7	OES	10 ppm (SK)	No Data

Comments

OES = Occupational Exposure Standard

SUP = Supplier's Recommendation

SK = Can be absorbed through skin

Protective Equipment

Wear safety goggles/glasses to give protection to eyes.

Wear suitable protective gloves.

Wear overalls.

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).

In case of insufficient ventilation, wear suitable respiratory equipment.

Protective Gloves

Use protective nitrile rubber gloves.

Eye Protection

Use approved safety goggles/glasses or face shield.

Protective Clothing

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Wear antistatic clothing made of natural fibre of high temperature resistant synthetic fibre.

Wear chemical resistant gloves, boots, and protective clothing appropriate for the risk of exposure.

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
Odour	Characteristic odour
Melting point	- 84 °C
Boiling point	>80 °C
Density	(20 °C) 0.862 - 1.100 gm/ml
Vapour Pressure	(20°C) 95 mbar
Viscosity	(20°C) 11-16 sec's. Ford Cup No. 4
Solubility in water	(20°C) less than 100 gm/l
Flash Point	-3 °C Closed Cup
Autoignition Temperature	>460°C
Flammability Limit (upper %)	10.5
Flammability Limit (lower %)	1.8

10) Stability and Reactivity

Thermal Decomposition	Thermal decomposition may occur. Decomposition may yield acrylic monomers.
Hazardous Decomposition	

Products	Fire creates Vapours/ Gases/ Carbon monoxide (CO) & Carbon dioxide (CO2) Fumes, Oxides of carbon and nitrogen.
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 at high concentrations may irritate respiratory system. Gas or vapour displaces oxygen available for breathing (asphyndent). Vapours may cause systematic effects like narcosis, headaches, dizziness, fatigue, muscular weakness, or drowsiness. In extreme cases, loss of consciousness may occur.
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.
Ingestion	Ingestion may cause sore throat, nausea, diarrhoea, and abdominal pain.
Route of entry	Inhalation, skin, eyes, or ingestion.

12) Ecological Information

Mobility	Very low water solubility.
Degradability	Biologically degradable.
Bioaccumulative Potential	Practically no potential to bioaccumulate.
Aquatic Toxicity	Low biochemical oxygen demand and essentially no oxygen depletion in aquatic systems.
	Do not allow to escape into water, wastewater drains or soil.

13) Disposal Considerations

Disposal via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

The relevant EC Directives and local, regional and national regulations must be in compliance. Used containers must not be cut up or punctured until completely purged of product residues.

Empty containers must not be burned because of explosion hazard.

Containers must be recycled in compliance with national legislation and environmental regulations.

Disposal subject to the Local Authority laws and requirements, national and environmental regulations.

Disposal via licensed waste disposal contractor.

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	

IMDG:

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

IATA:

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-11	Highly Flammable.
	R-20	Harmful by inhalation.
	R-21	Harmful in contact with skin.
	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-51	Toxic to aquatic organisms.

	R-53	May cause long-term adverse effects in the aquatic environment.
	R-65	Harmful. May cause lung damage if swallowed.
	R-66	Repeated exposure may can skin dryness or cracking.
	R-67	Vapours may cause drowsiness and dizziness.
(reference section 2 composition)	R-10	Flammable
Safety Phrases	S-9	Keep container in a well-ventilated place.
	S-16	Keep away from heat and sources of ignition.
		No Smoking.
	S-21	When using do not smoke.
	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-29	Do not empty into drains.
	S-33	Take precautionary measures against static
		discharges.
	S-38	In case of insufficient ventilation wear suitable respiratory equipment.
	S-51	Use only in well-ventilated areas.

UK Regulatory References:

Chemicals (Hazard Information and Packaging for Supply)

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)
	Regulations 1994 (CHIP 2)

16) Other Information

Emergency Action	Notify Police and Fire Brigade immediately.

17) Disclaimer

Disclaimer

The information accumulated herein is believed to be accurate and reliable as of the date above, however Varikolor.com. makes no representation, warranty or guarantee nor assumes any legal responsibility as to its accuracy, reliability or completeness. Ultimate determination of suitability for intended use is the responsibility of the user.

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in accordance with EU Directives

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