

MATERIAL SAFETY DATA SHEET  
FOR CR AND SBR NEOPRENE

*Fire retardant*

1. IDENTIFICATION OF THE SUBSTANCE

Laminated with 100% Nylon Jersey

CR= Chlorprene Rubber

SBR= Styrene Butadiene Rubber

2. COMPOSITION INFORMATION ON INGREDIENTS

Hazardous componets

This product contains no substance  
classified as hazardous to health.  
No latex polymers...

3. HAZARDS IDENTIFICATION

NONE

4. FIRST AID MEASURES

None: Material is not  
hazardous

NONE

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Foam, Water spay, Dry powder,  
Carbon dioxide (CO<sub>2</sub>), Dry sand.

Extinguishing media which must  
not to be used for safety reasons

NONE

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions

No special environmental  
precautions required.

Method for cleaning up

Collect in suitable container for  
disposal.

7. STORAGE AND HANDLING

Storage

Store in well ventilated area away  
from fire.

Handling

Not smoking while handling product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures to reduce exposure

Ensure adequate ventilation, especially  
in confined area.

General industrial hygiene practice.

Respiratory protection

No special respiratory  
protective equipment normally required.

Hand Protection

NONE

Eye Protection

NONE

Foam  
Sponge Only

CR/SBR COMPARISON CHART

	Synthetic SBR SPONGE	CR SPONGE
Elongation, Break (%) (min)	300	400
Tensile Strength (kg/cm <sup>2</sup> ) (min)	5.0	7.0
Tear Strength (kg/cm <sup>2</sup> ) (min)	2	2
Hardness (Type C)	6°-8°	4°-6°
Density (G/cm <sup>2</sup> )	0.2 + 0.02	0.18 - 0.2
Modulus at 200% Elongation (kg/cm <sup>2</sup> )	4-5	2-3
Water Absorption By Weight(%) (max)	1	1
Shrinkage (70°C, 24 hrs) (max)	2	2
Compression Set (compressed 50% - 25°C)	15-25	15-25

The differences between neoprene (CR) and SBR:

In the following respects, CR is better than SBR;

- Warmth; CR can keep body warmer than SBR.
- Corrosion; CR is not as easily corroded as SBR.
- Waterproof; CR is a higher waterproof than SBR.
- Water-pressure; CR is much more suitable than SBR when they are exposed to high water-pressure.
- Flexibility; CR is more flexible than SBR.

Therefore; CR is more suitable to be used in diving, such as diving suits or other water related activities.

SBR is more suitable to be used in sports on the ground, such as supporters (knee pads, leg guards, etc,) waist wrap and boots.

CR costs are higher than SBR

IMPORTANT NOTICE TO PURCHASER

All statements, technical advice and recommendations contained herein are based on tests believed to be reliable, but the accuracy thereof is not guaranteed, and the following is made in lieu of all warranties, expressed or implied: seller's and manufacturer's only obligation shall be to replace the quantity of product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith. No statement or recommendation not contained therein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid	Flash Point	>500F
Odor	Very Faint	Decomposition	
Color	Black or Ivory	Temperature	>400F

10. STABILITY AND REACTIVITY

Stability  
Conditions to avoid

Hazardous decomposition products

Stable at normal conditions.  
Do not expose to  
Temperatures over 400F and  
no smoking in storage and work area.  
Thermal decomposition can  
lead to release of irritating gases and  
vapors.

11. TOXICOLOGICAL INFORMATION

Ecotoxicity

NONE

12. DISPOSAL CONSIDERATIONS

Waste from residues  
Unused products

Can be disposed as a solid waste.  
Pack in box or bag and take to local  
recycling or waste disposal.

13. TRANSPORT INFORMATION

Furthur information

Not classified as danerous in the  
meaning of transport regulations.

14. OTHER INFORMATION

Disclaimer

The information provided in this  
Safety Data Sheet is correct to the  
best of our knowledge, information  
and belief at the date of it's  
publication. And is not to be  
considered a warranty or quality  
specification.



Chemical Laboratory - Kao., SGS Taiwan Ltd.

TEST REPORT

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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
<b>PBBs</b> (Polybrominated biphenyls)	---	---	---	---
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Dibromobiphenyl	%		0.0005	n.d.
Tribromobiphenyl	%		0.0005	n.d.
Tetrabromobiphenyl	%		0.0005	n.d.
Pentabromobiphenyl	%		0.0005	n.d.
Hexabromobiphenyl	%		0.0005	n.d.
Heptabromobiphenyl	%		0.0005	n.d.
Octabromobiphenyl	%		0.0005	n.d.
Nonabromobiphenyl	%		0.0005	n.d.
Decabromobiphenyl	%		0.0005	n.d.
<b>PBDEs</b> (Polybrominated biphenyl ethers)	---	---	---	---
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Dibromobiphenyl ether	%		0.0005	n.d.
Tribromobiphenyl ether	%		0.0005	n.d.
Tetrabromobiphenyl ether	%		0.0005	n.d.
Pentabromobiphenyl ether	%		0.0005	n.d.
Hexabromobiphenyl ether	%		0.0005	n.d.
Heptabromobiphenyl ether	%		0.0005	n.d.
Octabromobiphenyl ether	%		0.0005	n.d.
Nonabromobiphenyl ether	%		0.0005	n.d.
Decabromobiphenyl ether	%		0	0.0005

NOTE : n.d. = not detected.

<END>



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(NEOPHEN  
LEAD TESTING)

Chemical Laboratory - Kao., SGS Taiwan Ltd.

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DATE: 2006/1/24  
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THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED ON BEHALF OF THE CLIENT AND IDENTIFIED AS

CLIENT :  
PRODUCT DESCRIPTION : RESIN.  
: (AS ATTACHED SAMPLE PHOTO).  
STYLE/ITEM NO. : 31163A(642H-2).  
TESTING DATE : 2006/01/18 TO 2006/1/24 .  
SAMPLE RECEIVED : 2006/01/18.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	n.d.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	n.d.



*Kuettian Chen*  
Kuettian Chen / Asst. Supervisor  
Signed for and on behalf of  
SGS Taiwan Limited

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