

Version 1.2

Revision Date 2011-02-10

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

 Trade name
 :
 Ryton® R-4-02XT PPS Compound

 Material
 :
 1037733, 1023982, 1023981, 1023980, 1023979, 1023978, 1023977, 1023976, 1023983

EC-No.Registration number

Chemical Name	CAS-No. Index-No.	Registration number
p-Dichlorobenzene	106-46-7 602-035-00-2	01-2119472312-46-0004
Sodium sulfide	16721-80-5	01-2119513719-34-0004
Ethylene	74-85-1 601-010-00-3	01-2119462827-27-0004
		01-2119462827-27-0003

Company	 Chevron Phillips Chemical Company LP Ryton® PPS and Xtel® PPS Alloys 10001 Six Pines Drive The Woodlands, TX 77380
Local	 Chevron Phillips Chemicals International N.V. Brusselsesteenweg 355 B-3090 Overijse Belgium
	MSDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group Email:msds@cpchem.com
Emergency telephone:	
Health: 866.442.9628 (North Ameri 1.832.813.4984 (Internation	
Asia: +800 CHEMCALL (+8 EUROPE: BIG +32.14.5845 Chemcare Asia: Tel: +65 68	C 800.424.9300 or 703.527.3887 600 2436 2255) China: 0532.8388.9090 545 (phone) or +32.14583516 (telefax) 848 9048 - Mob: +65 8382 9188 - Fax: +65 6848 Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
E-mail address	 Product Safety and Toxicology Group MSDS@CPChem.com www.CPChem.com
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Ryton® R-4-02XT PPS Compound

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MEDICAL APPLICATION CAUTION: Do not use this Chevron Phillips Chemical Company LP material in medical applications involving permanent implantation in the human body or permanent contact with internal body fluids or tissues.

Do not use this Chevron Phillips Chemical Company LP material in medical applications involving brief or temporary implantation in the human body or contact with internal body fluids or tissues unless the material has been provided directly from Chevron Phillips Chemical Company LP under an agreement which expressly acknowledges the contemplated use.

Chevron Phillips Chemical Company LP makes no representation, promise, express warranty or implied warranty concerning the suitability of this material for use in implantation in the human body or in contact with internal body fluids or tissues.

2. HAZARDS IDENTIFICATION

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Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a dangerous substance according to Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Classification (67/548/EEC, 1999/45/EC)

In accordance with Directive 1999/45/EC, the product does not need to be classified nor labeled.Label elements

Labeling (REGULATION (EC) No 1272/2008)

Not a dangerous substance according to Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Components are encapsulated within the product matrix.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular formula	: Mixtur	е		
Polyphenylene Sulfide	26125-40-6			40 - 70
Fiberglass	65997-17-3 266-046-0		Carc. 2; H351 Eye Irrit. 2; H319 STOT RE 2; H373 STOT SE 3; H335	30 - 60
Carbon Black	1333-86-4 215-609-9	Xi; R37 Xi; R36	Carc. 2; H351 Carc. 2; H351	0,1 - 1

EC-No.Registration number

	Chemical Name	CAS-No. EINECS-No.	Registration number
	p-Dichlorobenzene	106-46-7 203-400-5	01-2119472312-46-0004
	Sodium sulfide	16721-80-5 240-778-0	01-2119513719-34-0004
	Ethylene	74-85-1 200-815-3	01-2119462827-27-0004
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For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

If inhaled	:	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
In case of skin contact	:	If the molten material gets on skin, quickly cool in water. Seek immediate medical attention. Do not try to peel the solidified material from the skin or use solvents or thinners to dissolve it.
In case of eye contact	:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	:	Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water. Water mist. Dry chemical. Carbon dioxide (CO2). Foam. If possible, water should be applied as a spray from a fogging nozzle since this is a surface burning material. The application of high velocity water will spread the burning surface layer. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	:	Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on floors and ledges.
Special protective equipment for fire-fighters	:	Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.
Further information	:	This material will burn although it is not easily ignited.
Fire and explosion protection	:	Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Hazardous decomposition products	:	Normal combustion forms carbon dioxide, water vapor and may produce carbon monoxide, other hydrocarbons and hydrocarbon oxidation products (ketones, aldehydes, organic acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde. Sulfur oxides. Carbonyl Sulfide.

6. ACCIDENTAL RELEASE MEASURES

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Personal precautions	:	Sweep up to prevent slipping hazard. Avoid breathing dust.
Environmental precautions	:	Do not contaminate surface water. Prevent product from entering drains.
Methods for cleaning up	:	Clean up promptly by sweeping or vacuum.
Additional advice	:	Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
HANDLING AND STORAGE		
Handling		
Advice on safe handling	:	Use good housekeeping for safe handling of the product. Keep out of water sources and sewers.
		Spilled pellets and powders may create a slipping hazard.
		Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient.
Advice on protection against fire and explosion	:	Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Storage		
Requirements for storage areas and containers	:	Keep in a dry place. Keep in a well-ventilated place.
Advice on common storage	:	Do not store together with oxidizing and self-igniting products.
EXPOSURE CONTROLS/PER	SO	NAL PROTECTION
Personal protective equipn	nen	t
Respiratory protection	:	No respiratory protection is normally required. If heated material generates vapor or fumes that are not adequately controlled by ventilation, wear an appropriate respirator. Use the following elements for air-purifying respirators: Organic Vapor and Formaldehyde. Use a positive pressure, air- supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection. Dust safety masks are recommended when the dust concentration is excessive.
Eye protection	:	Use of safety glasses with side shields for solid handling is
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Version 1.2 good industrial practice. If this material is heated, wear chemical goggles or safety glasses with side shields or a face shield. If there is potential for dust, use chemical goggles. Skin and body protection : At ambient temperatures use of clean and protective clothing is good industrial practice. If the material is heated or molten, wear thermally insulated, heat-resistant gloves that are able to withstand the temperature of the molten product. If this material is heated or molten, wear thermally insulated, heat-resistant gloves that are able to withstand the temperature of the molten product. If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not adequate. Protective measures : Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls and selecting earnor adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all indications supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. PHYSICAL AND CHEMICAL PROPERTIES Information on basic physical and chemical properties Appearance Form : Solid Odor : Mild to no odor Safety data : Mixture Density : 1,6 - 1,8 g/cm3 Water solubility : Negligible	Ryton® R-4-02XT PPS	MATERIAL SAFETY DATA SHEE
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	Thermal decomposition	
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11. TOXICOLOGICAL INFORMATION			
Ryton® R-4-02XT PPS Con Acute oral toxicity	npound : Presumed Not Toxic		
	Fresumed not roxic		
Ryton® R-4-02XT PPS Con Acute inhalation toxicity			
Ryton® R-4-02XT PPS Con Acute dermal toxicity	npound : Presumed Not Toxic		
Ryton® R-4-02XT PPS Con Skin irritation	npound : No skin irritation		
Ryton® R-4-02XT PPS Con Eye irritation	npound : No eye irritation		
Ryton® R-4-02XT PPS Con Sensitization	npound Did not cause sensitization on laboratory animals. 		
Puton® P-4-02YT DDS Con	nnound		
Ryton® R-4-02XT PPS Con Further information	: This product contains RYTON® PPS POLYMER. Subchronic feeding studies of RYTON® PPS Polymer at dietary levels of up to 5% caused no detrimental effects in laboratory animals. Molten polymer may cause severe thermal burns. The interior of molten masses may remain hot for sometime because of the low thermal conductivity of the polymer. Use care when disposing of, or handling such masses. The major thermal decomposition products of molded RYTON® PPS POLYMER are carbon monoxide, carbon dioxide, sulfur dioxide, and carbonyl sulfide. The latter two are the most significant producing mucous membrane irritation, nose bleeds and finally if exposure continues, respiratory paralysis and death. Pigments containing carbon black may have been incorporated into this product. However, the pigments in this product are bound in a polymer matrix which severely limits its extractability, bioavailability and toxicity. None of these pigments is likely to cause adverse health effects under recommended conditions of use.		
12. ECOLOGICAL INFORMATIC)N		
Ecotoxicity effects			
Elimination information (p	ersistence and degradability)		
Bioaccumulation	: Does not bioaccumulate.		
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MATERIAL SAFETY DATA SHEET Ryton[®] R-4-02XT PPS Compound Version 1.2 Revision Date 2011-02-10 Mobility : The product is insoluble and sinks in water. : This material is not expected to be readily biodegradable. Biodegradability Further information on ecology Additional ecological : This material is not expected to be harmful to aquatic information organisms. Fish or birds may eat pellets which may obstruct their digestive tracts. 13. DISPOSAL CONSIDERATIONS The information in this MSDS pertains only to the product as shipped. Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility. **14. TRANSPORT INFORMATION** The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition). Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading. USDOT NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. IMO / IMDG NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. ΙΑΤΑ NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. ADR NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. RID NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR

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TRANSPORTATION BY THIS AGENCY.

15. REGULATORY INFORMATION

National legislation

Major Accident Hazard: 96/82/ECUpdate: 2003LegislationDirective 96/82/EC does not apply

Notification status

Europe REACH United States of America US.TSCA Canada NDSL Australia AICS New Zealand NZIoC Japan ENCS Korea KECI		On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Not in compliance with the inventory On the inventory, or in compliance with the inventory Not in compliance with the inventory On the inventory, or in compliance with the inventory
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16. OTHER INFORMATION

NFPA Classification

: Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0

Further information

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this MSDS pertains only to the product as shipped.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

	Key or legend to abbreviations and acronyms used in the safety data sheet						
ACGIH	ACGIH American Conference of Government LOAEL Lowest Observed Adverse Effect Level Industrial Hygienists						
AICS	Australia, Inventory of Chemical Substances	NFPA	National Fire Protection Agency				
DSL	Canada, Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health				
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NDSL	Canada, Non-Domestic Substances List	NTP	National Toxicology Program
CNS	Central Nervous System	NZIoC	New Zealand Inventory of Chemicals
CAS	Chemical Abstract Service	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration	NOEC	No Observed Effect Concentration
EC50	Effective Concentration 50%	OSHA	Occupational Safety & Health
			Administration
EINECS	European Inventory of Existing Chemical Substances	PEL	Permissible Exposure Limit
NAALZ		DICCC	Dhilinings Inventory of Commercial
MAK	Germany Maximum Concentration	PICCS	Philipines Inventory of Commercial
	Values		Chemical Substances
GHS	Globally Harmonized System	PRNT	Presumed Not Toxic
>=	Greater Than or Equal To	RCRA	Resource Conservation Recovery Act
IC50	Inhibition Concentration 50%	STEL	Short-term Exposure Limit
IARC	International Agency for Research on	SARA	Superfund Amendments and
	Cancer		Reauthorization Act.
IECSC	Inventory of Existing Chemical	TLV	Threshold Limit Value
	Substances in China		
ENCS	Japan, Inventory of Existing and New	TWA	Time Weighted Average
	Chemical Substances		
KECI	Korea, Existing Chemical Inventory	TSCA	Toxic Substance Control Act
<=	Less Than or Equal To	UVCB	Unknown or Variable Compositon,
	·		Complex Reaction Products, and
			Biological Materials
LC50	Lethal Concentration 50%	WHMIS	Workplace Hazardous Materials
		_	Information System
LD50	Lethal Dose 50%		

Full text of R-phrases referred to under sections 2 and 3

Full text of H-Statements referred to under sections 2 and 3.

H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

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