

Version 1.3 Revision Date 2011-02-10

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

Product information

Trade name : Ryton® R-4-200BL PPS Compound

Material : 1024040, 1024047, 1024046, 1024045, 1024044, 1024043,

1024042, 1037736, 1024041

EC-No.Registration number

Chemical Name	CAS-No.	Registration number
	Index-No.	
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.

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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 America) 1.832.813.4984 (International)

Transport:

North America: CHEMTREC 800.424.9300 or 703.527.3887 Asia: +800 CHEMCALL (+800 2436 2255) China: 0532.8388.9090 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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Responsible Department : Product Safety and Toxicology Group

E-mail address : MSDS@CPChem.com Website : www.CPChem.com

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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

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 : Mixture

Mixtures

Hazardous ingredients

Chemical Name	CAS-No. EINECS-No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
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

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Chemical Name	CAS-No.	Registration number
	EINECS-No.	
p-Dichlorobenzene	106-46-7	01-2119472312-46-0004
	203-400-5	
Sodium sulfide	16721-80-5	01-2119513719-34-0004
	240-778-0	
Ethylene	74-85-1	01-2119462827-27-0004
	200-815-3	
		01-2119462827-27-0003

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 : Water. Water mist. Dry chemical. Carbon dioxide (CO2). media : 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

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produce carbon monoxide, other hydrocarbons and

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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

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).

7. 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

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

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Vapor and Formaldehyde. Use a positive pressure, airsupplying 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

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, 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 or work practices are not 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 instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Form : Pellets

Physical state : Solid

Odor : Mild to no odor

Safety data

Molecular formula : Mixture

Density : 1,6 - 1,8 g/cm3

Water solubility : Negligible

10. STABILITY AND REACTIVITY

Chemical stability : This material is considered stable under normal ambient

and anticipated storage and handling conditions of

temperature and pressure

Possibility of hazardous reactions

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Conditions to avoid : Avoid prolonged storage at elevated temperature.

Materials to avoid : Avoid contact with strong oxidizing agents.

Thermal decomposition : Low molecular weight hydrocarbons, alcohols, aldehydes,

acids and ketones can be formed during thermal processing.

11. TOXICOLOGICAL INFORMATION

Ryton® R-4-200BL PPS Compound

Acute oral toxicity :

Presumed Not Toxic

Ryton® R-4-200BL PPS Compound

Acute inhalation toxicity : Presumed Not Toxic

Ryton® R-4-200BL PPS Compound

Acute dermal toxicity

Presumed Not Toxic

Ryton® R-4-200BL PPS Compound

Skin irritation : No skin irritation

Ryton® R-4-200BL PPS Compound

Eye irritation : No eye irritation

Ryton® R-4-200BL PPS Compound

Sensitization : Did not cause sensitization on laboratory animals.

Rvton® R-4-200BL PPS Compound

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.

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12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Elimination information (persistence and degradability)

Bioaccumulation : Does not bioaccumulate.

Mobility : The product is insoluble and sinks in water.

Biodegradability : This material is not expected to be readily biodegradable.

Further information on ecology

Additional ecological

information

: This material is not expected to be harmful to aquatic

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.

IATA

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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 TRANSPORTATION BY THIS AGENCY.

15. REGULATORY INFORMATION

National legislation

Major Accident Hazard : 96/82/EC Update: 2003 Legislation Directive 96/82/EC does not apply

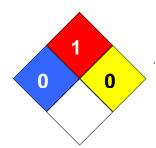
Notification status

Europe REACH : On the inventory, or in compliance with the inventory United States of America US.TSCA : On the inventory, or in compliance with the inventory Canada DSL On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Australia AICS New Zealand NZIoC On the inventory, or in compliance with the inventory Japan ENCS On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Korea KECI Philippines PICCS On the inventory, or in compliance with the inventory China IECSC On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

NFPA Classification : Health Hazard: 0 Fire Hazard: 1

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

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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 ac	ronyms us	sed in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LOAEL	Lowest Observed Adverse Effect Level
AICS	Australia, Inventory of Chemical Substances	NFPA	National Fire Protection Agency
DSL	Canada, Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
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
MAK	Germany Maximum Concentration Values	PICCS	Philipines Inventory of Commercial 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 Cancer	SARA	Superfund Amendments and Reauthorization Act.
IECSC	Inventory of Existing Chemical Substances in China	TLV	Threshold Limit Value
ENCS	Japan, Inventory of Existing and New Chemical Substances	TWA	Time Weighted Average
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.