

POW-R Wrap

Document Ref: SDS-007

August 2022

Issue: 2

1. Identification of the Substance/Preparation and Company:

Product Name: POW-R Wrap

Application: Generally used in pipe connection systems in plumbing, drain,

waste or sewers.

Company Details: Fernco Ltd, Endeavour Works, Newlands Way,

Valley Park, Wombwell, Barnsley, S73 0UW

Contact Details: Tel: +44(0)1226 340222

Operating Hours: Mon-Thurs 8:30am-5pm, Friday 8:30am-4pm

Date SDS Prepared: August 2022

2. Hazards Identification

GHS Hazard Acute Toxicity Inhalation Category 4 Sensitization Respiratory—Category 1 Class

Sensitization Skin—Category 1

Specific Target Organ Toxicity — Single Exposure Category 3

Specific Target Organ Toxicity — Repeated Exposure — Category 2

Signal word: Danger

H332 Harmful if inhaled Hazard

Statement:

H334 May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

1-131 7 May cause allergic skin reaction.

1-4335 May cause respiratory irritation;

1-4373 May cause damage to organs through prolonged or repeated

exposure.

Precautionary P261 Avoid breathing dust/fume/gas/mist/vapours/spray

Statements: Prevention

P271 Use only outdoors or in a well-ventilated area.









P284 In case of inadequate ventilation wear respiratory protection.

P272 Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face P280 protection.

Response P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

> P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P342 + If experiencing respiratory symptoms: Call a POISON Centre or 3 11 doctor.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see supplemental first aid on label)

P362 + P364 Take off contaminated clothing and wash it before reuse.

Get medical advice/attention if you feel unwell. P314

Storage P403 + P233 Store in a well ventilated place. Keep container tightly closed.

> Store locked up. P405

P501 Dispose of contents/container: Follow the waste Disposal disposal

requirements of your country, state, or local authorities.

<5 % of mixture consists of ingredients of unknown acute toxicity

Not Classified as Hazardous Based On IMO and DOT. **HAZARD**

CLASSIFICATION:

FIRE AND Not considered flammable or combustible, but this product will burn if

EXPLOSION: involved in a fire.

Product emits toxic fumes when burned.

APPEARANCE: Fiberglass tape impregnated with grey liquid

NFPA Rating:

Component	Health	Flammability	Reactivity	Special
	(Blue)	(Red)	(Yellow)	(White)
POW-R WRAP	2	(nea)	(renow)	(vviiice)

3. Composition, Information on Ingredients







PRODUCT COMPOSITIO N	APPROX º/0	CAS NO.	EC NUMBER	CANADA DSL
Fiberglass	40 - 60	65997-17-3		
4,4' - Diphenylmeth ane Diisocyanate (MDI)	10-20	101 -68-8	202-966-0	
Polyisocyanat e Prepolymer based on MDI	30 -50			
Polymeric Diphenylmeth ane Diisocyanate (pMDI)		9016-87-9		
Diphenylmeth ane Diisocyanate (MDI) Mixed Isomers		26447-40-5		
Polyester resin				

4. First Aid Measures

Description of First Aid Measures

Inhalation Remove to fresh air. If not breathing, provide CPR (cardio pulmonary

resuscitation).

Skin Contact Get immediate medical attention.

Eye Contact Immediately wash skin with plenty of soap and water for at least 15

Ingestion minutes.

Remove contaminated clothing.

Immediately flush eyes with plenty of water for at least 15 minutes.

Get immediate medical attention. If swallowed do not induce

vomiting, give large quantities of water to drink. Never give anything

to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

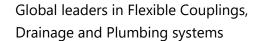
May cause respiratory tract irritation. May cause dizziness, headache, Symptoms/injuries after

Inhalation nausea and mental confusion.











Symptoms/injuries after Skin Contact Symptoms/injuries after **Eye Contact**

Symptoms/injuries after Ingestion

May cause skin irritation. Symptoms may include redness, drying, defatting, and cracking of the skin. May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

May be harmful if swallowed. May cause stomach distress, nausea, or vomiting.

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

Acute: Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g., fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

Causes skin irritation with symptoms of reddening, itching, and swelling. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Cured material is difficult to remove. Contact with MDI can cause discoloration.

Causes eye irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapor or aerosol may cause irritation with symptoms of burning and tearing.

May cause irritation of the digestive tract. Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

Chronic: As a result of previous repeated overexposures or a single large dose, certain individuals may develop sensitization to isocyanates (asthma or asthma-like symptoms) that may cause them to react to a later exposure to isocyanates at levels well below the TLV or PEL. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthmatic attack, could be immediate or delayed up to several hours after exposure. Extreme asthmatic reactions can be life threatening. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Sensitization can be permanent. Chronic overexposure to isocyanates has also been reported to cause lung damage (including fibrosis, decrease in lung function) that may be permanent.

Prolonged contact with skin can cause reddening, swelling, rash, and, in some cases, skin sensitization. Animal tests and other research indicate that skin contact with MDI can play a role in







causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

5. Fire Fighting Measures

Suitable extinguishing media Use foam, dry chemical, or carbon dioxide.

Special hazards arising from the substance or

Protective actions fire-fighters Wear standard protective equipment and self contained breathing

apparatus for firefighting if necessary.

Further information Use water spray to cool unopened containers. Emits toxic fumes under

fire conditions.

No data available.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures. Wear proper personal protective equipment. Avoid breathing vapors or mist.

Environmental precautions

None

Methods and materials for containment and cleaning up

Place waste material or unused material in a waste container.

Reference to other Sections for personal protection reference section 8. For disposal reference section 13.

7. Handling and Storage

Precautions for safe handling

- Use only with adequate ventilation.
- Do not inhale vapors.
- Wear proper protective equipment when handling this material.
- Avoid contact with skin, eyes or clothing.
- Wash hands and face after handling this material. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

- Store upright in a cool, dry place.
- Keep container closed when not in use.
- Utilize chemical segregation.
- Follow all applicable local regulations for handling and storage.

Specific uses

Repair of leaks in all types of pipes, hoses, and lines that may contain fluids, gases, or any other type of material.









8. Exposure Controls / Personal Protection

Control Parameters

PRODUCT	ACGIH	OSHA	NIOSH
COMPOSITION	TLV	PEL	REL
101 -68-8	0.005 ppm	0.02 ppm;	
		0.2 mg/m3	

Exposure controls

PRACTICES:

VENTILATION: Always provide good general, mechanical room ventilation where

RESPIRATORY PROTECTION: this chemical/material is used.

Use a suitable respiratory protective device in case of insufficient

ventilation.

PROTECTIVE GLOVES: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or

the

EYE PROTECTION: European Standard EN 149. Use a NIOSH/MSHA or European Standard

PROTECTIVE CLOTHING: EN 149 approved respirator if exposure limits are exceeded or if

OTHER EQUIPMENT: irritation or other symptoms are experienced.

Wear chemical impervious gloves at all times while working with this WORK/HYGIENE product. Recommended glove types include: Laminate Film, Nitrile, or

Tri-polymer. Check with your company's glove supplier to ensure

chemical resistance.

Safety Glasses, Chemical goggles, or face shield

Wear suitable protective clothing to prevent skin contact.

Make safety shower, eyewash stations, and hand washing equipment available in the work area. Avoid breathing vapor. Avoid contact with

eyes. Wash hands and face after handling.

9. Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Grey
PHYSICAL STATE:	Fiberglass tape impregnated with grey liquid
ODOR:	Slight aromatic odour
ODOR THRESHOLD	No data available
	No data available
MELTING POINT/FREEZING POINT:	No data available
INITIAL BOILING POINT AND	Approx. 694 ^O F (367.78) ^o c Estimated based upon
BOILING RANGE:	components
FLASH POINT:	460 °F (237.78 °c) Pensky-Martens Closed cup ASTM D-
	93



EVAPORATION RATE:	No data available
FLAMMABILITY (Solid, gas)	No data available
UPPER/LOWER FLAMMABILITY OR	Not Measured
EXPLOSIVE LIMITS	
VAPOR PRESSURE	< 0.0001 mmHg @ 77 $^{\circ}$ F (25 $^{\circ}$ c)
VAPOR DENSITY (AIR = I)	Approx. 1.14 g/cm3 @ 77 °F (25 °c)
RELATIVE DENSITY (@25 oc):	1.14
SOLUBILITY(IES)	Insoluble — Reacts slowly with water to liberate CO2
	gas
OXIDIZING PROPERTIES	No data available
PARTITION COEFFICIENT: n-	No data available
octanol/water	
AUTO IGNITION TEMPERATURE	No data available
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY	Approximately 5400 mPas @ 77 ° F (25 °c)

10. Stability and Reactivity

Reactivity: Water reacts with the chemicals in the tape.

Stable **Chemical Stability:**

Possibility of Hazardous Reactions: Will not occur

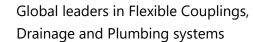
Conditions to Avoid: None Incompatibility (Materials to Avoid): Water **Hazardous Decomposition Products:** None

11. Toxicological Information

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity	LD50 (Oral/Rat):	>2000 mg/kg		9016-87-9 pMDI
	LC50 (Inhalation/Rat male):	0.49 mg/l / 4 hour		9016-87-9 pMDI
	LD50 (Dermal/Rabbit):	>9400 mg/kg		9016-87-9 pMDI
	LC50 (Inhalation/Rat male):	0.369 mg/l / 4 hour		101 -68-8
	LD50 (Oral/Rat):	>7616 mg/kg		101 -68-8









	LD50 (Dermal/Rabbit):	>9400 mg/kg		101 -68-8
Skin Corrosion/irritation		No information is available.		
Serious Eye Damage / Eye Irritation		No information is available.		
Respiratory or Skin Sensitization		(local lymph node positive (mouse, ne 429)		101 -68-8
	Respiratory sensit (guinea pig)	ization: positive		101 -68-8
	Skin sensitization a Buehler (epicutan negative (guinea p Guideline 406)	eous test)::		9016-87-9 pMDI
Germ Cell Mutagenicity	Genetic Toxicity in Micronucleus Assanegative			101 -68-8
	Genetic Toxicity in Bacterial - gene m negative (Salmone Metabolic Activati	utation assay: ella typhimurium,		9016-87-9 pMDI
Carcinogenicity	NTP	Not listed		
	IARC	Not classifiable as to its carcinogenicity in humans (Group 3)		101 -68-8
	IARC	Not classifiable as to its carcinogenicity in humans (Group 3)		9016-87-9
	OSHA	Not listed		
Reproductive Toxicity		No information is available		
STOT Single Exposure	May cause respira	tory irritation	Cat 3	9016-87-9







STOT — Repeated Exposure	May cause damage to organs through prolonged or repeated exposureinhalation		Cat 2	9016-87-9
Aspiration Hazard		No information is available.		
Ames Test	Negative			9016-87-9
	Negative			101 -68-8

STOT = Specific Target Organ Toxicity

12. Ecological Information

Chemical Constituent

Toxicity:	EC50: > 100 mg/l, (activated sludge, 3 h)	101 -68-8
Persistence and degradability:	No information is available.	
Bioaccumulative potential	Oncorhynchus mykiss (rainbow trout), Exposure time: 1 12 d, < 1 BCF	101 -68-8
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted	
Other adverse effects:	No information is available.	

13. Disposal Considerations

Waste from residues/unused products: Follow the waste disposal requirements of your country, state, or local authorities.

Contaminated packaging: Contaminated packaging material should be disposed of as stated above for residues and unused product.

Rinsate: Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

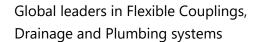
14. Transport Information

Not Regulated **DOT TRANSPORT:** Not Regulated ADR = International Carriage of Dangerous Goods by Road











RAIL TRANSPORT: Not Regulated SEA TRANSPORT: **IMDG** Not Regulated AIR TRANSPORT: IATA/ICAO Not Regulated

15. Regulatory Information

EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Directive 67/548/EEC, Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures.

16. Other Information

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