

Material SAFETY DATA SHEET Flexseal PP800 - Hardener

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Flexseal PP800 - Hardener	
Description:	Hardener component of an elastomeric hig	h performance, cold applied fuel
	resistant pavement joint sealant	
Manufacturer:	Ayla Lebanon	
	Port, Jamarek Street (Face Port Pharmacy)	, Rbeiz Bldg
	Beirut, Lebanon	
	Tel.: +961 1 444 562	Fax: +961 1 444 563
	www.dcp-int.com	
Date Prepared:	04.04.2011	
MSDS Number:	DCP/07/03/13-H	

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition:	Aromatic isocyana	ate, chlorinated paraffin.		
Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Polymeric diphenylmethane Diisocyanate (pMDI)	Xn	R20, 36/37/38, 42	9016-87-9	10 - 25
Chlorinated paraffin	Ν	R51/53	63449-39-8	50 - 75
4,4'-Diphenylmethane Diisocyanate (MDI)	Xn	R20, 22, 36/37/38 R42	101-68-8	10 - 15
Diphenylmethane diisocyanate (MDI) mixed isomers			26447-40-5	< 5

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard Information:	Harmful by inhalation. Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Classification:	Xn, N, R20, 22, 36/37/38, 42, 51/53.

Issue No.:	01	Rev. No.:	00	Flexseal PP800 - Hardener	Page	1 of 6



4: FIRST AID MEASURES

Eyes:	Irrigate with copious quantities of clean water or eyewash solution, holding the eyelids apart, for at least 15 minutes. Obtain medical attention.
Skin:	Wash immediately with soap and water or suitable skin cleanser for at least 15 minutes until no evidence of chemicals remain, for severe exposure, immediately get under safety shower and begin rinsing. Remove contaminated clothes and shoes, wash them before reuse. Obtain medical advice if skin disorders develop.
Inhalation:	Remove from exposure; obtain medical attention if respiratory irritation develops or if breathing becomes difficult. Asthmatic symptoms may develop and may be delayed up to several hours. Extreme asthmatic reactions can be life threatening.
Ingestion:	Rinse mouth thoroughly. Drink plenty of water. Do not induce vomiting. Obtain medical attention. Beware of aspiration if vomiting occurs.

5:	FIRE	FIGHT	ING M	EASURES	
----	------	-------	-------	----------------	--

Extinguishing Media:	Dry Chemicals, carbon dioxide, powder, foam, water spray for large fires.
Personal Protective Equipment:	Self-contained breathing apparatus, helmet, hood, boots and gloves.
	Avoid contact with product.
Special Exposure Hazards:	Closed container may rupture under extreme heat or when contents are contaminated with water (CO_2 formed). Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volumes of water applied from a safe distance, since reaction between water and hot diisocyanate can be vigorous

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Immediately issue NO SMOKING and NO NAKED FLAMES warnings. Wear suitable protective clothing, gloves and eye/face protection.
Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Soak up with inert absorbent such as sand. Gather into labeled containers. Dispose off as applicable regulations.

7: HANDLING AND STORAGE

Handling:			Avoid bread	jood standards of personal hygiene. Avoid skir athing vapors, mist or dusts. Do not eat, drinl product. Ensure adequate ventilation. In ca , wear suitable respiratory equipment.	c or smoke	whilst
Storage:			away fron	ainer tightly closed in a cool dry area (between n sources of heat and out of direct sunlight Store in conformity with local fire regulations. Fignition.	to avoid pre	essure
Issue No.:	01	Rev. No.:	00	Flexseal PP800 - Hardener	Page	2 of 6



8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye Protection:		esistant safety goggles. uick drench shower in th		
Skin Protection:	Impervious glo	ves (e.g. PVC). Suitable	protective clothin	ng.
Respiratory Protection:	Breathing filter	s apparatus.		
Hygiene Measures:	Change contar resistant clothe	ninated clothing and cle s	ean before re-u	se. Wear chemical
Engineering Controls:	Use only in recommended.	well ventilated areas	s. Local exhau	ust ventilation is
Exposure Guidelines:		Value	Limit	Reference
4,4'-Diphenylmethane Diisocyanate 4,4'-Diphenylmethane Diisocyanate	• •	0.005 ppm 0.02 ppm/0.2 mg/m³	TWA CLV	ACGIH OSHA

9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solvent-free liquid
Colour:	Light brown
Odour:	Characteristic
pH (concentrate):	Not applicable
Boiling Point (°C):	Not applicable
Flash Point (closed cup) (°C):	Not applicable
Autoflammability (°C):	Not applicable
Explosive Properties (%):	Not applicable
Relative Density (@25°C):	1.26
Water Solubility:	Insoluble

10: STABILITY AND REACTIVITY

Stability:	Stable if used as directed.
Conditions to Avoid:	Temperature above 35°C.
Chemical Incompatibility:	Water, amines, strong bases, alcohols, copper, alloys.
Hazardous Decomposition Products:	Thermal decomposition yield hydrogen cyanide, carbon dioxide, carbon monoxide, oxides of nitrogen, dense black smoke, isocyanic acid, other undetermined compounds.



11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.Polymeric MDI:Acute oral toxicityLD50 > 2000 mg/kg (rat)

	Acute inhalation toxicity	LC50 = 490 mg/m ³ , vapor, 4 hr (rat)		
4,4'-Diphenylmethane diisocyanate (MI) Acute oral toxicity Acute inhalation toxicity	LD50 = 369 mg/m ³ , 4 hr (rat) LC50 > 2240 mg/m ³ , aerosil, 1 hr (rat)		
Health Effects				
On Eyes:	Irritant.			
On Skin:	Irritant.			
By Inhalation:	Irritant.			
Chronic:	Repeated and prolonged use cause	irritation in the lung and nasal cavity.		

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed as indented, no adverse environmental effects are forseen.
Mobility:	Insoluble in water.
Degradability:	Not readily biodegradable.
Bioaccumulation:	Not expected to be bioaccumulative.
Acute Fish Toxicity:	Ecotoxic to fish/daphnia/algae.

13: DISPOSAL CONSIDERATION

This material and/or its container must be disposed of as hazardous waste. Do not discharge into drains or the environment, dispose to an authorized waste collection point.

Unused Product:	Disposal should be in accordance with local, state or national legislation. Classified as special waste, may react with hardener component.
Used/ Contaminated Product:	As for unused product.
Packaging:	Must be disposed off through an authorized waste contractor, do not heat or cut container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditionening, remove all residue of product before disposal.



14: TRANSPORT INFORMATION



UN Number:

Transport Name:

Environmentally hazardous substance, liquid, n.o.s. (chlorinated paraffins C_{10-13} & diphenylmethane di-isocyanate (MDI).

Transport Type:		Class:	Pack Group:	Marine Pollutant
At Sea	IMDG	9	Ш	Yes
Air Transport	ICAO/IATA	9	111	
At land	RID/ADR/DOT	9	Ш	



15: REGULATORY INFORMATION

Hazard Label Data:	Xn	Ν
	Harmful	Dangerous for the environment
Risk Phrases:		
	R20	Harmful by inhalation.
	R22	Harmful if swallowed.
	R36/37/38	Irritating to eyes, respiratory system and skin.
	R42	May cause sensitization by inhalation.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse in the aquatic environment.
Safety Phrases:		
	S2	Keep out of the reach of children.
	S24/25	Avoid any inhalation, contact with skin and eyes. Wear suitable protective clothing and gloves.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28	After contact with skin, wash immediately with plenty of soap and water.
	S36/37	Wear suitable protective clothing and gloves.
	S38	In case of insufficient ventilation wear suitable respiratory equipment.
	S45	In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).
	S60	This material and its container must be disposed of as hazardous waste.
	S61	Avoid release to the environment. Refer to special instructions/safety data sheet.

16: OTHER INFORMATION

Issue Date:04/04/2011Revised Date:Disclaimer:The information contained herein is derived from the best available sources and is
believed to be accurate. However, no guarantee is expressed or implied regarding
the accuracy of the data given in the use of this product.

	Issue No.:	01	Rev. No.:	00	Flexseal PP800 - Hardener	Page	6 of 6
--	------------	----	-----------	----	---------------------------	------	--------