MATERIAL SAFETY DATASHEET

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Dural 619 PU- Part B

EUCLID CHEMICAL

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PRODUCT AND OF THE COMPANY

Product Name	Dural 619 PU- Part B
Recommended use	Pur Injection Foam For Temporary Stopping Of Water Leakage
Manufacturer	Stoncor Middle East LLC P.O. Box: 3034, Dubai, UAE
Telephone	Tel: +971 4 347 046
Website	www.stoncor-me.com

SECTION 2: HAZARD(S) IDENTIFICATION:

Classification according to Regulation (EC) No 1272/2008 [CLP]

	**Acute Tox. 4** **Eye Irrit. 2** **Skin Irrit. 2** **Carc. 2**	**Skin Sens. 1 Resp.** **Sens. 1 STOT Single** **Exp. 3 STOT Rep.** **Exp. 2**
Signal Word	**Danger**	
Hazard Code	**H315** Causes skin irritation **H319** Causes serious eye irritation **H317** May cause an allergic skin reaction **H332** Harmful if inhaled **H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled **H335** May cause respiratory irritation **H351** Suspected of causing cancer **H373** May cause damage to organs <Respiratory system> through prolonged or repeated exposure <inhalation>	
Precautionary codes	**P260** Do not breathe dust/fume/gas/mist/vapour/spray **P280** Wear protective gloves/protective clothing/eye protection/face protection **P284** In case of inadequate ventilation, wear respiratory protection **P302 + P352** If exposure on skin, wash with plenty of water **P304 + P340** If inhaled, remove person to fresh air and keep comfortable for breathing **P305 + P351 + P338** If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. **P308 + P313** If exposed or concerned, get medical advice.	
Other Hazards	**EUH204** Contains isocyanates. May produce an allergic reaction.	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS No.	Wt.%
Polymeric MDI Diphenylmethane diisocyanate (mixed isomers)	Polymethylene polyphenylene isocyanate	9016-87-9	30-70
	Methylene diphenyl diisocyanate (MDI)	26447-40-5	30-70

SECTION 4: FIRST AID MEASURES

Advice for first aiders

No action shall be taken involving any personal risk or without suitable training.
If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.
Wear gloves.
If ingested, It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Wash contaminated clothing thoroughly with water before removing it.

Inhalation

If inhaled, remove to fresh air immediately. If not breathing, perform artificial respiration. Get medical attention immediately.

Eye Contact

In case of contact with eye, hold eyes open and rise with preferably lukewarm water for atleast 10 minutes. Get medical attention immediately. Do not allow victim to rub eye(s).

Skin Contact

In case of contact with skin, wash with a cleanser based on polyethylene glycol or with plenty of water and soap. Consult a doctor in case of a skin reaction. Wash clothing, shoes before reuse.

Ingestion

Do not induce vomit. Provided the patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious patient. Get medical attention immediately.

Most important symptoms

If inhaled, respiratory tract irritation, coughing, wheezing and breathing difficulties, asthma. For contact with skin or eyes – irritation or redness.

Notes to physician

The product irritates the respiratory tract and may trigger sensitisation of the skin and respiratory tract. Treatment of acute irritation or bronchial constriction is primarily symptomatic. Following severe exposure the patient should be kept under medical review for at least 48 hours.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Dry chemical powder, carbon dioxide. Water spray may be used in copious quantities.

Unsuitable Media Advice	High volume water jet.
for Fire Fighting	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA). PVC boots, gloves, safety helmet and protective clothing should be worn. In a fire or if heated, a pressure increase will occur and the container may burst.
Special hazards arising from substance or mixture	Combustion products may include: carbon oxides (CO, CO2) nitrogen oxides (NO, NO2 etc.) hydrocarbons, isocyanate vapors and hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate spill area, preventing entry by unauthorized persons. Avoid breathing vapouror mist. Do not walk through or touch the spilled material. Provide adequate ventilation, wear appropriate respirator if ventilation is inadequate. Put on appropriate PPE.
Environmental Precautions	Prevent the material from entering sewers, drainage systems, groundwater and surface water.
Methods for Containment	Immediately shut off the leak if it is safe to do so. Contain the spill with earth, sand, sawdust or suitable absorbent. Collect into open-top drums or plastic bags for further decontamination, if necessary. Dispose via licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

SECTION 7: HANDLING AND STORAGE

Handling – General Occupational Hygiene advice	Handle materials in a well-ventilated area. Wear appropriate respirator when ventilation is inadequate. Do not eat, drink or smoke in working area. Wash hands after handling product. Do not use with incompatible materials such as amines, alcohols, acids, bases, metal compounds, surfactants and water. May result in a vigourous or violent reaction. Avoid generating mist. Prevent the release of aerosol into workplace air.
Handling – Material specific protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest.

Safe Storage including incompatibilities	Keep a cool, dry, well-ventilated area between 5-35^{0}C out of direct sunlight. Keep away from incompatible substances. Keep container tightly closed and sealed until ready for use and carefully reseal after use. Do not reseal containers if contamination is suspected. Empty containers retain product residue and can be hazardous.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Common Name	Chemical Name	TWA 8 hours	STEL 15 min
Polymeric MDI	Polymethylene polyphenylene isocyanate	0.05 mg/m3	0.1 mg/m3

Ventilation	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure within occupational exposure limits.
Eye/Face Protection	Wear safety glasses with side protection or splash goggles.
Skin Protection	Wear suitable chemical gloves (EN 374), with Protection Class 5 for prolonged use, Class 3 for brief contact. Recommended materials include nitrile rubber, viton, butyl rubber.
Respiratory Protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Body Protection	Full sleeve clothing, chemical apron, safety shoes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid, Dark amber to brown, viscous liquid with a characteristic earthy, musty odor. Not available
pH	
Density	1.22 – 1.24 @ 25^{0}C
Solubility	Not soluble in water
Boiling point	200-208^{0}C, (above 204^{o}C, it starts to decompose)
Vapor Density	Not available
Viscosity	150-300 mPas@ 25^{0}C
Solvent solubility	Soluble in benzene, nitrobenzene, acetone, chlorinated benzene and kerosene 230^{0}C
Flash Point & method Auto	Not available
ignition temperature	Not available
Freezing point	

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity	The material is stable and non-reactive under normal conditions of use, storage and transport.
Possibility of hazardous reactions	No dangerous reaction known to occur under conditions of normal use.
Conditions to avoid	Avoid contact with incompatible materials.
Incompatible materials	See Section 7.
Hazardous decomposition products	See Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

Polymeric MDI (Polymethylene polyphenylene isocyanate)

Inhalation	LC50 (rat) – 368 to 559 mg/m3/4h. Adverse effect observed (irritation).
Dermal contact	LD50 >9400 mg/kg. Adverse effect observed (irritation).
Oral	LD50 >2000 mg/kg.
Irritation / Corrosion	Based on the available data, MDI is considered to cause skin and eye irritation. All members of this category of materials without substance-specific data is classified as Skin Irrit. Cat. 2, Eye Irrit. Cat. 2.
Sensitization	Based on the available data, MDI is considered a skin and respiratory sensitizer. All members of this category of materials without substance-specific data is classified as Skin Sens. Cat. 1 (H317) and Resp. Sens. Cat. 1 (H334).
Carcinogenicity	All members of this category of materials without substance-specific data is classified as category 2 carcinogen. For oral and dermal route of entry – no studies. For inhalation route adverse effect observed.
Mutagenicity Teratogenicity	Data not available
Specific target organ toxicity	Data not available The principal route of concern for human exposure is the lungs via inhalation. Sufficient evidence is available to classify with STOT RE 2 (H373).

Methylene diphenyl diisocyanate (MDI) – CAS No. 26447-40-5

Inhalation	
Dermal contact	
Oral	
Irritation / Corrosion	
Sensitization	
Carcinogenicity	
Mutagenicity	
Teratogenicity	
Specific target organ toxicity	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	LC50 (fish) >100 mg/L; EC50 (invertebrates) 3.7 mg/L; EC50 (algae) 100 mg/L;
Persistence/Degradability	Product is not readily biodegradable.
Bioaccumulation Mobility	Low bioaccumulation potential. Low mobility

SECTION 13: DISPOSAL CONSIDERATIONS

- Disposal of this product should comply with the requirements of environmental protection and waste disposal legislation of the country, at all times. Products should be disposed via a licensed waste disposal contractor. Product should not be disposed untreated into the sewer.
- Empty drums must be handled with care due to product residue.
- Neutralise spill material carefully and decontaminate empty containers and spill residues with 10% ammonia solution plus detergent or a proprietary decontaminant prior to disposal.
- Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS Transport

in bulk according to Annex II of MARPOL and the IBC code: Not Applicable

SECTION 15: REGULATORY INFORMATION

National Inventory List

Australia inventory (AICS):	All components are listed or exempted. All
China inventory (IECSC):	components are listed or exempted. All
Japan inventory (ENCS):	components are listed or exempted. All
Japan inventory (ISHL):	components are listed or exempted. All
Korea inventory:	components are listed or exempted. All
Malaysia Inventory (EHS Register):	components are listed or exempted. All
New Zealand Inventory of Chemicals (NZIoC):	components are listed or exempted.
Philippines inventory (PICCS):	All components are listed or exempted. All
Taiwan Chemical Substances Inventory (TCSI):	components are listed or exempted.
Thailand inventory:	Not determined.
Turkey inventory:	Not determined.

SECTION 16: OTHER INFORMATION

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use therof. We assume no responsibility for injury from the use of the product described herein.