MATERIAL SAFETY DATA SHEET

POLINTEK® INSULATION – POLYURETHANE (PU)

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME :

POLINTEK® Insulation – Polyurethane (PU)

OTHER NAME :

PU Insulation

RECOMMENDED USE :

Base one component system. Mix with Solidifier component before use. Repair system designed for stop leaking. Application by injector provided. Please refer to the relevant POLINTEK® Instructions For Use for further information. For use only by professional operators.

COMPANY NAME :

PT. Darta Mckuadrat Industri

ADDRESS :

Jl. Raya Puspitek No. 147 RT 014/ 004 Kelurahan Setu, Kecamatan Setu Tangerang Selatan, Banten 15314

TELEPHONE NO :

+6221 75877805

SECTION 2 – HAZARD IDENTIFICATION

Extremely flammable

Harmful by inhalation.

Irritating to eyes, respiratory system and skin.

May cause sensitisation by inhalation and skin contact.

Limited evidence of a carcinogenic effect.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

CLASSIFICATION (1999/45) Xn;R20, R48/20. Carc. Cat. 3;R40. R42/43. Xi;R36/37/38. F+;R12.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical identity of ingredients	CAS Number for ingredients
Polyol Blend	-
Methylenediphenyl Diisocyanate	-

SECTION 4 – FIRST AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues. If respiratory problems, artificial respiration/oxygen.

INGESTION

DO NOT INDUCE VOMITING! Immediately rinse mouth and provide fresh air. Get medical attention immediately!

SKIN CONTACT

Remove affected person from source of contamination. Immediately remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur

after washing.
Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if any discomfort continues.
Poisons Information Centre on +6221 75877805

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: Water spray, fog or mist. Foam. Powder.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Use pressurised air mask if product is involved in a fire.

UNUSUAL FIRE & EXPLOSION HAZARDS

Fire causes formation of toxic gases. Aerosol cans may explode in a fire.

SPECIFIC HAZARDS

Fire creates: Irritating gases/vapours/fumes of: Hydrogen cyanide (HCN). Nitrous gases (NOx).

SECTION 6 – ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

When dealing with a spillage, please consult the section relating to suitable protective measures. Wear necessary protective equipment. Stop leak if possible without risk. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

SECTION 7 – HANDLING AND STORAGE

USAGE PRECAUTIONS

Persons with impaired lung functions should not handle this preparation. Persons susceptible to allergic reactions should not handle this product. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS

Keep in original container. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

PROTECTIVE EQUIPMENT

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

Respiratory protection must be used if air contamination exceeds acceptable level.

HAND PROTECTION

Use protective gloves made of: Rubber, neoprene or PVC. The most suitable glove must be chosen in

consultation with

the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved, tight fitting safety glasses where splashing is probable.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet.

Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Yellowish

ODOUR

Musty (mouldy).

SOLUBILITY

Insoluble in water

RELATIVE DENSITY

50 g/cm^3 @ 25 °c

VISCOSITY

mPas @ 20^0 C

SECTION 10 – STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers. Reacts strongly with strong acids, bases, organic chemicals and certain metal combinations.

HAZARDOUS DECOMPOSITION PRODUCTS

High temperatures generate: Toxic gases/vapours/fumes of: Carbon dioxide (CO2). Carbon monoxide (CO). Hydrogencyanide (HCN).

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 >10000 mg/kg (oral rat)

TOXIC CONC. - LC 50 490 mg/l/4h (inh-rat)

GENERAL INFORMATION

No specific health warnings noted.

INHALATION

Harmful by inhalation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. May cause sensitisation by inhalation.

INGESTION

May cause stomach pain or vomiting.

SKIN CONTACT

Irritating to skin. Prolonged or repeated exposure may cause severe irritation.

EYE CONTACT

Irritating to eyes.

OTHER HEALTH EFFECTS

Carcinogen Category 3.

Name METHYLENEDIPHENYL DIISOCYANATE

Toxic Dose 1 - LD 50 5000 mg/kg (oral rat)

Toxic Dose 2 - LD 50 5000 mg/kg (ipr-rat)

Toxic Conc. - LC 50 370 mg/l/4h (inh-rat)

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

Name METHYLENEDIPHENYL DIISOCYANATE

LC 50, 96 Hrs, Fish mg/l 100

EC 50, 48 Hrs, Daphnia, mg/l 100

SECTION 13 – DISPOSAL CONSIDERATON

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14 – TRANSPORT INFORMATION

TRANSPORT NOTES

Non-regulated for transport under current Domestic, or International Air and Sea Regulations.
Transport within user's premises: always transport in closed containers that are upright and secure.
Ensure that persons transporting the product know what to do in the event of accident or spillage.

SECTION 15 – REGULATORY INFORMATION

CONTAINS METHYLENEDIPHENYL DIISOCYANATE

RISK PHRASES

R12 Extremely flammable.
R20 Harmful by inhalation.
R36/37/38 Irritating to eyes, respiratory system and skin.
R40 Limited evidence of a carcinogenic effect.

R42/43 May cause sensitisation by inhalation and skin contact.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
SAFETY PHRASES
A1 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
A2 Do not spray on a naked flame or any incandescent material.
S2 Keep out of the reach of children.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe vapour/spray.
S36/37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell, seek medical advicenimmediately (show label where possible).
P4 Contains isocyanates. See information supplied by the manufacturer.
UK REGULATORY REFERENCES
Chemicals (Hazard Information & Packaging) Regulations.
The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. ENVIRONMENTAL LISTING
Control of Pollution Act 1974. Control of Pollution (Special Waste Regulations) Act 1980. Rivers (Prevention of Pollution)
Act 1961.
EU DIRECTIVES
Dangerous Substance Directive 67/548/EEC.
Dangerous Preparations Directive 1999/45/EC.
System of specific information relating to Dangerous Preparations. 2001/58/EC.
Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the
Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals
Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation
(EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC,
93/105/EC and 2000/21/EC, including amendments.
GUIDANCE NOTES
Workplace Exposure Limits EH40.

SECTION 16 – OTHER INFORMATION

RISK PHRASES IN FULL

R12 Extremely flammable.

R20 Harmful by inhalation.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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R52/53

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R40 Limited evidence of a carcinogenic effect.

R42/43 May cause sensitisation by inhalation and skin contact.

IMPORTANT NOTES

1. To the best of our knowledge this document complies with the National Code of Practice for the Preparation of Material Safety Data Sheets.
2. This material safety data sheet summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this material safety data sheet and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products.
3. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the Safety and Emergency Services Department.
4. Our responsibility for products sold, is subject to our terms and conditions, a copy of which is sent to our customers, and is also available on request.

PT DARTA MCKUADRAT INDUSTRI

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