

Fluido para transmisiones automáticas

INFORMACIÓN CLAVE

Apto para*:

- GM Dexron ® IID
- Ford Mercon ®
- **ZF** TZ-ML 14A



¹Por favor consultar el manual de mantenimiento del vehículo.

APLICACIONES

FLUIDMATIC DII MV se recomienda para algunas transmisiones automáticas de vehículos pesados que especifican un nivel de performance Dexron IID, así como en sistemas de dirección asistida relacionados.

También es adecuado para su uso en algunos sistemas hidráulicos especiales en equipos agrícolas y otras instalaciones con requerimientos de líquidos similares.

FLUIDMATIC DII MV es compatible con todos los materiales de sellado comúnmente utilizados en las transmisiones Tipo IID.

BENEFICIOS PARA EL USUARIO

- Intervalo de drenaje adaptado: mantiene un funcionamiento eficiente durante el intervalo de drenaje recomendado por el fabricante.
- Propiedades friccionales optimizadas: permite cambios suaves, promoviendo así una mayor vida útil de la transmisión.
- Alta estabilidad a la oxidación: mantiene sus propiedades en condiciones severas de operación.
- Alta fluidez a baja temperatura: lubricación rápida y limpia a baja temperatura ambiente.
- Muy buena compatibilidad con sellos y juntas: evita la fuga de aceite.

CARACTERÍSTICAS²

ENSAYO	UNIDAD	MÉTODO	RESULTADO
Viscosidad cinemática a 40°C	mm²/s	ASTM D445	36.09
Viscosidad cinemática a 100°C	mm²/s	ASTM D445	7.493
Índice de viscosidad	-	ASTM D2270	181
Flashpoint	°C	ASTM D92	190
Pour point	°C	ASTM D97	-51
Densidad	Kg/m ³	DIN 51757 D	861.5

² Las características consignadas en la tabla de arriba corresponden a valores típicos consignados a título ilustrativo y no deben ser considerados como especificaciones.

RECOMENDACIONES PARA EL USO

Antes de utilizar el producto deberá chequearse el manual de mantenimiento del vehículo: los cambios de aceite deberían efectuarse de acuerdo con las recomendaciones del fabricante.

El producto no debe ser almacenado a temperaturas superiores a 60°C. Debe mantenerse al resguardo de la luz solar, frío intenso y fluctuaciones extremas de temperatura.

Los envases no deben exponerse a la intemperie a fin de evitar contaminaciones y prevenir daños al mismo y a la etiqueta.

SALUD, SEGURIDAD Y MEDIO AMBIENTE

Basado en la información toxicológica disponible, este lubricante usado de acuerdo con las recomendaciones de la hoja de seguridad y para los usos para los cuales fue desarrollado, no presenta ningún efecto adverso en la salud. Puede obtener una hoja de seguridad acorde a la normativa vigente local de su representante comercial local o ingresando en ms-sds.totalenergies.com

Este producto no debe usarse para ningún otro propósito distinto de aquellos para los cuales está destinado.

TOTAL CHILE S.A.

Calle UNO N° 3010,

Quilicura, Santiago, Chile

FLUIDMATIC DII MV Última actualización: 03/2022



SAFETY DATA SHEET **FLUIDMATIC DIII MV**

SDS#: 089901

Section 1. Identification

Product identifier : FLUIDMATIC DIII MV

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Automatic transmission fluids

Supplier's details

TOTAL OIL ASIA PACIFIC PTE LTD

182 Cecil Street #27-01 Frasers Tower Singapore 069547 Tel: +65 6879 2200 ms.ap-sds@total.com

Emergency telephone number (with hours of operation)

Asia-Pacific: +65 3158 1074

Section 2. Hazards identification

Classification of the substance or mixture : Not classified.

GHS label elements, including precautionary statements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

Prevention : Not applicable. Response : Not applicable. **Storage** : Not applicable. **Disposal** : Not applicable.

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

result in classification

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

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Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated light paraffinic	≥25 - ≤50	64742-55-8
Methacrylate copolymer	≤3	-
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	<1	1218787-32-6
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	≤0.1	95-38-5

Additional information

: Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Chemical formula : Not applicable.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

Skin contact: Wash skin thoroughly with soap and water or use recognized skin cleanser.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact: Defatting to the skin. May cause skin dryness and irritation.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation dryness cracking

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

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Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO2, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media

: Do not use water jet.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: In a fire or if heated, a pressure increase will occur and the container may burst.

: No specific data.

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated light paraffinic	Workplace Safety and Health Act (Singapore, 2/2006). PEL (long term): 5 mg/m³ 8 hours. Form: Mist PEL (short term): 10 mg/m³ 15 minutes. Form: Mist

Occupational exposure limits Philippines

Product/substance	Exposure limit values
Distillates (petroleum), hydrotreated heavy	TLV (Philippines, 4/2016).
paraffinic	TLV: 5 mg/m³ 8 hours.
Distillates (petroleum), hydrotreated light	TLV (Philippines, 4/2016).
paraffinic	TLV: 5 mg/m³ 8 hours.

Advisory OEL

: Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)

Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Hydrocarbon-proof gloves

Fluorinated rubber nitrile rubber

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts,

abrasion, and the contact time.

Body protection : Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

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. Respirator with combination filter for vapor/particulate Type A/P1 Warning! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing

their choices and uses None under normal use conditions

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.
Color : Red.

Odor : Characteristic.
Odor threshold : Not available.
pH : Not available.
Melting point/freezing point : Not available.
Boiling point : Not available.

Flash point : Open cup: 194°C (381.2°F) [ASTM D 92]

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : 0.858 [ASTM D 4052]

Solubility : Insoluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Partition coefficient: n- : Not available.

octanol/water

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Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): 0.35 cm²/s (35 cSt)

Flow time (ISO 2431) : Not available.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

SADT : Not available.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test
Distillates (petroleum), hydrotreated light paraffinic	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	OECD 403
	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 420
Methacrylate copolymer	LC50 Inhalation Dusts and mists	Rat	5.2 mg/l	4 hours	-
	LC50 Inhalation Vapor	Rat	80.4 mg/l	1 hours	-
	LC50 Inhalation Vapor	Rat	20.1 mg/l	4 hours	-
	LD50 Dermal	Rabbit	2500 mg/kg	-	-
	LD50 Oral	Rat	2500 mg/kg	-	-
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	LD50 Oral	Rat	1350 mg/kg	-	OECD 401
2-(2-heptadec-8-enyl- 2-imidazolin-1-yl)ethanol	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-
	LD50 Dermal LD50 Oral	Rat Rat	2500 mg/kg 1265 mg/kg	-	- OECD 401

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Irritation/Corrosion

Conclusion/Summary: Based on available data, the classification criteria are not met.

Sensitization

Not available.

Conclusion/Summary: Based on available data, the classification criteria are not met.

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Mutagenicity

Not available.

Conclusion/Summary: Based on available data, the classification criteria are not met.

Carcinogenicity

Not available.

Conclusion/Summary: Based on available data, the classification criteria are not met.

Reproductive toxicity

Not available.

Conclusion/Summary: Based on available data, the classification criteria are not met.

Teratogenicity

Not available.

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	3.3	Route of exposure	Target organs
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	Category 2	Oral	thymus

Aspiration hazard

Name	Result
Distillates (petroleum), hydrotreated light paraffinic	ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact: Defatting to the skin. May cause skin dryness and irritation.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data. **Inhalation** : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation dryness cracking

Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

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Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis.

Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	(0)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Methacrylate copolymer	2500	2500	N/A	20.1	5.2
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	1350	N/A	N/A	N/A	N/A
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	1265	2500	N/A	N/A	5.1

Section 12. Ecological information

Toxicity

Product/substance	Result	Species	Exposure	Test
Distillates (petroleum),	Acute EC50 >100 mg/l	Algae -	48 hours	OECD 201
hydrotreated light paraffinic		Pseudokirchnerella subcapitata		
	Acute EC50 >10000 mg/l	Daphnia - Daphnia magna	48 hours	OECD 202
	Chronic NOEL 10 mg/l	Daphnia - Daphnia magna	21 days	OECD 211
	Chronic NOEL >1000 mg/l	Fish - Oncorhynchus	21 days	-
		mykiss		
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	Acute EC50 0.12 mg/l	Algae	72 hours	-
	Acute LC50 0.6 mg/l	Fish	96 hours	-
	Chronic NOEC 0.32 mg/l	Daphnia	21 days	-
2-(2-heptadec-8-enyl- 2-imidazolin-1-yl)ethanol	Acute EC50 0.03 mg/l	Algae - Desmodesmus subspicatus static	72 hours	OECD 201
,	Acute EC50 0.136 mg/l	Daphnia - Daphnia magna	48 hours	OECD 202
	Acute LC50 0.3 mg/l	Fish	96 hours	-

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Conclusion/Summary

: Based on available data, the classification criteria are not met. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not required

Persistence/degradability

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Methacrylate copolymer 2-(2-heptadec-8-enyl- 2-imidazolin-1-yl)ethanol	-		Readily Not readily

Bioaccumulative potential

Product/substance	LogK _{ow}	BCF	Potential
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	3.6	-	low
2-(2-heptadec-8-enyl- 2-imidazolin-1-yl)ethanol	7.51	371.8	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility in soil

: Given its physical and chemical characteristics, the product generally shows low soil mobility. The product is insoluble and floats on water. Loss by evaporation is limited

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	ICAO/IATA	ADR/RID	ADN
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	9006
UN proper shipping name	-	-	-	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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Transport hazard class (es)	-	-	-	-	9
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	Yes.

Additional information

ADN : The product is only regulated as a dangerous good when transported in tank

vessels

Special precautions for user : 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 an accident or spillage.

Transport in bulk according

to Annex II of MARPOL and

the IBC Code

: Not available.

Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.

National regulations

This Safety Data Sheet (SDS) has been prepared according to Singapore Standard SS 586 on "Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods"

Workplace Safety and Health (General Provision) Regulations

Philippines

National regulations

This Safety Data Sheet (SDS) has been prepared according to EMB Memorandum Circular on "Guidance Manual for Department Administrative Order 2015-09, Rules and Procedures for the Implementation of GHS in Preparation of SDS and Labelling Requirements of Toxic Chemical Substances"

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

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China : All components are listed or exempted.Europe : All components are listed or exempted.

Japan inventory (ENCS): At least one component is not listed.

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.
 Philippines : All components are listed or exempted.
 Republic of Korea : All components are listed or exempted.
 Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are listed or exempted.

Viet Nam : Not determined.

Section 16. Other information

History

Date of revision : 11/27/2020

Date of previous revision : No previous validation

Version : 1

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

Additional details on the supplier of the product

Total (Philippines) Corporation 7th Filoor, 11th Corporate Center 11th Avenue, comer Triangle Drive, North Bonifacio, Bonifacio Global City 1634 Taguig City Philippines Tel: +63 2 8490888

Tel: +63 2 8490888 Fax: +63 2 8490889

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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