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Rustrans-Logistic.ru Effective Date 19/08/2014 According to OSHA Hazard Communication Standard, 29 CFR

ые импортные Material Safety Data Sheet ые импортн

## 1. MATERIAL AND COMPANY IDENTIFICATION

**BMW TwinPower Turbo LL04 5W-30** Material Name

**Product Code** 001F4046 Uses Engine oil.

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Shell Projects & Technology Manufac<mark>turer/S</mark>upplier

> Shell Technology Center Houston 3333 HIGHWAY 6 SOUTH Houston, TX 77082-3101

8<mark>77-276-7285</mark> strans-Logistic.ru SDS Request

**Emergency Telephone Number** 

**Spill Information** 877-242-7400 **Health Information** 877-504-9351



Chemical Identity CAS No. Concentration Calcium Carbonate 471-34-1 1.00 - 5.00 % Maleic anhydride 108-31-6 1.00 - 5.00 %

Synthetic base oil and additives. Highly refined mineral oil.

The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

The highly refined mineral oil is only present as additive diluent.

### 3. HAZARDS IDENTIFICATION

**Emergency Overview Appearance and Odour** Amber. Liquid at room temperature. Slight hydrocarbon.

**Health Hazards** Not classified as dangerous for supply or conveyance. Safety Hazards Not classified as flammable but will burn.

**Environmental Hazards** Not classified as dangerous for the environment.

**Health Hazards** Not expected to be a health hazard when used under normal

conditions. ISUIC Health Hazards

> Inhalation : Under normal conditions of use, this is not expected to be a

primary route of exposure.

**Skin Contact** Prolonged or repeated skin contact without proper cleaning can

clog the pores of the skin resulting in disorders such as oil

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acne/folliculitis.

ISTI' Eye Contact IC. I'U : May cause slight irritation to eyes.

800010016171 Print Date 08/19/2014 MSDS US



1/11















Rustrans-Logistic.ru Effective Date 19/08/2014 According to OSHA Hazard Communication Standard, 29 CFR ые импортные Material Safety Data Sheetые импортн

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Ingestion Other Information Signs and Symptoms

**Aggravated Medical** 

Low toxicity if swallowed.

Used oil may contain harmful impurities. Oil acne/folliculitis signs and symptoms may include formation

of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea. Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this

**Environmental Hazards** Additional Information

material: Skin. Not classified as dangerous for the environment.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.



## 4. FIRST-AID MEASURES

Conditions

**General Information** Not expected to be a health hazard when used under normal

conditions.

Inhalation No treatment necessary under normal conditions of use. If

symptoms persist, obtain medical advice.

**Skin Contact** Remove contaminated clothing. Flush exposed area with water

and follow by washing with soap if available. If persistent

irritation occurs, obtain medical attention.

**Eye Contact** Flush eye with copious quantities of water. If persistent

irritation occurs, obtain medical attention.

Ingestion Ogistic.ru In general no treatment is necessary unless large quantities

are swallowed, however, get medical advice.

Advice to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

230 °C / 446 °F (COC) Flash point **Upper / lower** Typical 1 - 10 %(V)

Flammability or Explosion limits

Auto ignition temperature

> 320 °C / 608 °F Specific Hazards Hazardous combustion products may include: A complex

mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic

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compounds.

Suitable Extinguishing

Media

**Unsuitable Extinguishing** 

Media

**Protective Equipment for** 

IST Firefighters QISTIC. I'U

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Do not use water in a jet.

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

Print Date 08/19/2014

800010016171 MSDS US ns-Logistic.ru









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2/11







Rustrans-Logistic.ru Effective Date 19/08/2014 According to OSHA Hazard Communication Standard, 29 CFR

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## 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

Protective measures : Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

**Clean Up Methods** 

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Additional Advice

Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

Local authorities should be advised if significant spillages

cannot be contained.

## 7. HANDLING AND STORAGE

**General Precautions** 

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

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Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.

Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Store at ambient temperature.

**Product Transfer** 

This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations.

Recommended Materials

For containers or container linings, use mild steel or high

density polyethylene.

**Unsuitable Materials** Additional Information PVC.

Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Occupational Exposure Limits**

Durai	Material	Source	Туре	ppm	mg/m3	Notation	Dil
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3/11

Print Date 08/19/2014

800010016171 MSDS US













ые импортные Material Safety Data Sheet ые импортн

Effective Date 19/08/2014 According to OSHA Hazard Communication Standard, 29 CFR

Rust
ОРИГИН

Oil mis minera		TWA(Inhalable e fraction.)	5 mg/m3 Rustrans-Logis	tic.ru	ıstrans-Lo
Oil mis	, and a second s	PEL(Mist.)	5 mg/m3	не масла	ГИНАЛЬНЫЕ ИМГ

S	-Lo	gi	st	i	C.1

	ı	ı	ı		1
Calcium	OSHA Z1	PEL(Respira	_ 0	5 mg/m3	
Carbonate	Rusti	ble fraction.)	stic.ru	R	ustrans-Logisti
сла 🗀	ОРИГИНА	ЛЬНЫЕ ИМПОРТ	НЫЕ МАСЛА	OF	ИГИНАЛЬНЫЕ ИМПОРТНЫЕ
Calcium	OSHA Z1	PEL(Total		15 mg/m3	
Carbonate		dust.)			
		,			
Maleic	OSHA Z1	PEL .	0.25 ppm	1 mg/m3	ic.ru Ru
anhydride	910410114				
Maleic	ACGIH	TWA(Inhalabl	ОРИГИНАЛЬ	0.01 mg/m3	е масла
anhydride		e fraction and			
		vapor.)			
		' '			
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## **Biological Exposure Index (BEI)**

No biological limit allocated.



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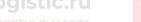


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Maleic anhydride

**ACGIH** 

Sensitiser.









: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Define procedures for safe handling and maintenance of controls. Educate and train workers in the hazards and control measures relevant to normal activities associated with this product. Ensure appropriat<mark>e</mark> selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation. Drain down system prior to equipment break-in or maintenance. Retain drain downs in sealed storage pending disposal or for subsequent recycle. Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash







4/11

Print Date 08/19/2014

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Rustrans-Logistic.ru Effective Date 19/08/2014 According to OSHA Hazard Communication Standard, 29 CFR ые импортные Material Safety Data Sheetые импортн

Rustrans-Logistic.ru **Personal Protective** 

Equipment **Respiratory Protection** 

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#### **Hand Protection**



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**Eye Protection** 

**Protective Clothing** 

**Monitoring Methods** 

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Print Date 08/19/2014

work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65°C(149 °F)].

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but ные масла recognise that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Wear safety glasses or full face shield if splashes are likely to

Skin protection not ordinarily required beyond standard issue work clothes.

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Validated exposure measurement methods

5/11

MSDS US ns-Logistic.ru









According to OSHA Hazard Communication Standard, 29 CFR ые импортные Material Safety Data Sheet ые импортн

Effective Date 19/08/2014



should be applied by a competent person and samples analysed by an accredited laboratory. Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.



National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/ Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/ Health and Safety Executive (HSE), UK: Methods for the **Determination of Hazardous Substances** 

http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany.

http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France

http://www.inrs.fr/accueil

**Environmental Exposure** Controls

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Take appropriate measures to fulfil the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on

emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.



#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Amber. Liquid at room temperature. Appearance

Odour Slight hydrocarbon. рН Not applicable.

> 280 °C / 536 °F estimated value(s) Initial Boiling Point and

**Boiling Range** Pour point -36 °C / -33 °F

230 °C / 446 °F (COC) Flash point

Upper / lower Flammability Typical 1 - 10 %(V)

> 320 °C / 608 °F Auto-ignition temperature

< 0.5 Pa at 20 °C / 68 °F (estimated value(s)) Vapour pressure

0.854 at 15 °C / 59 °F Specific gravity

Rustrans-Logistic.ru Density 854.4 kg/m3 at 15 °C / 59 °F Water solubility Negligible.

n-octanol/water partition > 6 (based on information on similar products)

coefficient (log Pow) Kinematic viscosity 69.5 mm2/s at 40 °C / 104 °F

Vapour density (air=1) > 1 (estimated value(s))

Electrical conductivity This material is not expected to be a static accumulator.

6/11

Print Date 08/19/2014

or Explosion limits

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#### BMW TwinPower Turbo LL04 5W-30

Effective Date 19/08/2014

ые импортные Material Safety Data Sheet ые импортны

Rustrans-Logistic.ru According to OSHA Hazard Communication Standard, 29 CFR

Evaporation rate (nBuAc=1) : Data not available

## 10. STABILITY AND REACTIVITY

Stability Stable.

Conditions to Avoid Extremes of temperature and direct sunlight.

Materials to Avoid Strong oxidising agents.

Hazardous Decomposition : Hazardous decomposition products are not expected to form

**Products** during normal storage.

#### 11. TOXICOLOGICAL INFORMATION

**Basis for Assessment** Information given is based on data on the components and the

toxicology of similar products.

Unless indicated otherwise, the data presented is

representative of the product as a whole, rather than for

individual component(s).

**Acute Oral Toxicity** Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat Acute Dermal Toxicity Expected to be of low toxicity: LD50 > 5000 mg/kg, Rabbit

Acute Inhalation Toxicity Not considered to be an inhalation hazard under normal

conditions of use.

**Skin Irritation** Expected to be slightly irritating. Prolonged or repeated skin

contact without proper cleaning can clog the pores of the skin

resulting in disorders such as oil acne/folliculitis.

Eye Irritation Expected to be slightly irritating.

**Respiratory Irritation** Inhalation of vapours or mists may cause irritation.

Sensitisation Not expected to be a skin sensitiser.

Repeated Dose Toxicity Not expected to be a hazard. Mutagenicity Not considered a mutagenic hazard.

Carcinogenicity Not expected to be carcinogenic.

	Material	:	Carcinogenicity Classification		
	Highly refined mineral oil (IP346 <3%)		ACGIH Group A4: Not classifiable as a human ca	n carcinogen.	
	Highly refined mineral oil		IARC 3: Not classifiable as to carcinogenicity to h	umans.	
	(IP346 <3%)				
5	Highly refined mineral oil (IP346 <3%)	:	GHS / CLP: No carcinogenicity classification	O Ru	

Reproductive and **Developmental Toxicity**  Not expected to be a hazard.

Used oils may contain har<mark>mful imp</mark>urities that have Additional Information

accumulated during use. The concentration of such impurities EMACJIA will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

Continuous contact with used engine oils has caused skin

cancer in animal tests.

7/11

Print Date 08/19/2014

ustrans-Logistic.ru

800010016171 MSDS US











Effective Date 19/08/2014

Rustrans-Logistic.ru According to OSHA Hazard Communication Standard, 29 CFR

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# 12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

**Acute Toxicity** 

Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract. Rustrans-Logistic.ru

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ıstrans-Logistic.ru игин Mobility импортные масла

Liquid under most environmental conditions. If it enters soil, it

will adsorb to soil particles and will not be mobile. Floats on

Persistence/degradability

Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

Bioaccumulation Other Adverse Effects

Contains components with the potential to bioaccumulate. THE MACTIA

Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

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## 13. DISPOSAL CONSIDERATIONS

**Material Disposal** Recover or recycle if possible. It is the responsibility of the

waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in

drains or in water courses.

**Container Disposal** Dispose in accordance with prevailing regulations, preferably

to a recognised collector or contractor. The competence of the

collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

Local Legislation

#### 14. TRANSPORT INFORMATION

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Rustrans-Logistic.ru US Department of Transportation Classification (49CFR)

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

**IMDG** 

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800010016171 Print Date 08/19/2014 MSDS US









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#### BMW TwinPower Turbo LL04 5W-30

ns-Logistic.ru

Effective Date 19/08/2014 According to OSHA Hazard Communication Standard, 29 CFR

ые импортные iMaterial S<mark>afety Data Sheet ые импортн</mark>

This material is not classified as dangerous under IMDG regulations.



## IATA (Country variations may apply)

This material is either not classified as dangerous under IATA regulations or needs to follow country specific requirements.



### 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.



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Rustrans-Logistic.ru Federal Regulatory Status



## Notification Status ustrans-Logistic.ru

EINECS All components listed or

polymer exempt. **TSCA** All components listed.

All components listed. Rustrans-Logistic.ru ıstrans-Logistic.ru



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Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)

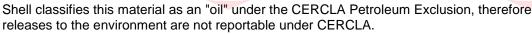
BMW TwinPower Turbo LL04 5W-30 Reportable quantity: 83 lbs

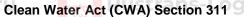
Maleic anhydride (108-31-6) Reportable quantity: 5000 lbs

Zinc dialkyl dithiophosphate (84605-29-8)



The components with RQs are given for information.





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Maleic anhydride (108-31-6) Reportable quantity: 5000 lbs

Under Section 311 of the Clean Water Act (CWA) this material is considered an oil. As such, spills into surface waters must be reported to the National Response Center at (800) 424-8802

Print Date 08/19/2014

9/11

MSDS US









Effective Date 19/08/2014

ые импортные Material Safety Data Sheet ые импортн

According to OSHA Hazard Communication Standard, 29 CFR

SARA Hazard Categories (311/312)

No SARA 311/312 Hazards.

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SARA Toxic Release Inventory (TRI) (313)

Maleic anhydride (108-31-6) 4.30% Zinc dialkyl dithiophosphate (84605-1.20%

Diphenylamine (122-39-4) 0.00%



## **State Regulatory Status**

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**New Jersey Right-To-Know Chemical List** 

Calcium Carbonate (471-34-1) 4.30% Maleic anhydride (108-31-6) 4.30%

Listed. Zinc dialkyl dithiophosphate (84605-29-8) 1.20% Listed.

Calcium hydroxide (1305-62-0) 0.12% рригинальные Diphenylamine (122-39-4) 0.00<mark>1% ригинальн</mark>

Listed.



## Pennsylvania Right-To-Know Chemical List

Calcium Carbonate (471-34-1) 4.30% Maleic anhydride (108-31-6) 4.30%

Calcium hydroxide (1305-62-0) 0.12%

Diphenylamine (122-39-4) 0.001%

Rustrans-Logistic.ru Listed: АЛЬНЫЕ ИМПОРТНЫЕ МАСЛА

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Listed.

Environmental hazard.

Listed.

Environmental hazard.

## 16. OTHER INFORMATION

NFPA Rating (Health, Fire, Reactivity)

**SDS Version Number** 

**SDS Effective Date** 19/08/2014

SDS Revisions A vertical bar (I) in the left margin indicates an amendment

from the previous version.

10/11

Print Date 08/19/2014

MSDS US









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**SDS** Regulation SDS Distribution The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

The information in this document should be made available to

all who may handle the product.

**Disclaimer** 



The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.







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Print Date 08/19/2014

800010016171 MSDS US



