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SECTION	1. IDENTIFICATION			
Produ	ct name	:	Shell Rotella T3 1	5W-40
Produ	Product code		001D5433	
Manufacturer or supplier's o		deta	ails	
Manut	facturer/Supplier	:	Shell Canada Pr 400 - 4th Avenue Calgary AB T2P Canada	S.W
Telepl Telefa			(+1) 8006611600 (+1) 4033848345	
Emerç ber	gency telephone num-	:	(US)	hr): 1 (703) 527-3887 or 1 (800) 424-9300 ): (+1) 613-996-6666; Toll Free: 1-888-CAN- )
Reco	nmended use of the c	hen	nical and restriction	ons on use
Recor	nmended use	:	Engine oil.	

## **SECTION 2. HAZARDS IDENTIFICATION**

## **GHS Classification**

Not a hazardous substance or mixture.

## **GHS** label elements

Precautionary statements : Prevention: No precautionary phrases. Response: No precautionary phrases. Storage:	
Hazard statements : PHYSICAL HAZARDS: Not classified as a physical hazard under GHS HEALTH HAZARDS: Not classified as a health hazard under GHS of ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under	criteria.
Signal word : No signal word	
Hazard pictograms : No Hazard Symbol required	

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No precautionary phrases. **Disposal:** No precautionary phrases.

## Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Used oil may contain harmful impurities.

Not classified as flammable but will burn.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	: Shell Rotella T3 15W-40
Chemical nature	<ul> <li>Highly refined mineral oils and additives. The highly refined mineral oil contains &lt;3% (w/w) DMSO- extract, according to IP346.</li> </ul>
	* contains one or more of the following CAS-numbers: 64742- 53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69- 9.

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Polyolefin amide alkeneamine	84605-20-9	1 - 5
Zinc dialkyldithiophosphate	113706-15-3	1 - 2.4
Ethylenediamine	107-15-3	0.1 - 0.9
Alkylthiocarbamide metal complex	Not Assigned	0.1 - 0.9
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *	Not Assigned	0 - 90

## **SECTION 4. FIRST-AID MEASURES**

General advice	: Not expected to be a health hazard when used under normal conditions.
If inhaled	: No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
In case of skin contact	<ul> <li>Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.</li> <li>If persistent irritation occurs, obtain medical attention.</li> </ul>
In case of eye contact	: Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
If swallowed	: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

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Most important symptoms and effects, both acute and delayed		of black pustule	<ul> <li>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.</li> </ul>		
Protection of first-aiders		appropriate per	: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.		
Note	s to physician	: Treat symptoma	atically.		

## **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon diox- ide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during fire- fighting	:	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 compounds.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Special protective equipment for firefighters	:	Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid contact with skin and eyes.
Environmental precautions	:	Use appropriate containment to avoid environmental contami- nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
		Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material.
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		Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, suitable material and dispose of properly.	sand or other		
Additional advice		<ul> <li>For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet.</li> <li>For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.</li> </ul>			
SECTION	7. HANDLING AND S	ORAGE			
Gene	eral Precautions	: Use local exhaust ventilation if there is risk of inh vapours, mists or aerosols. Use the information in this data sheet as input to sessment of local circumstances to help determin ate controls for safe handling, storage and dispose material.	a risk as- ne appropri-		
Advid	ce on safe handling	<ul> <li>Avoid prolonged or repeated contact with skin.</li> <li>Avoid inhaling vapour and/or mists.</li> <li>When handling product in drums, safety footwear should be worn and proper handling equipment should be used.</li> <li>Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.</li> </ul>			
Avoid	dance of contact	: Strong oxidising agents.			
Prod	uct Transfer	This material has the potential to be a static accurrent Proper grounding and bonding procedures shoul during all bulk transfer operations.			
Stora	age				
Othe	r data	: Keep container tightly closed and in a cool, well- place.	ventilated		
		Use properly labeled and closable containers.			
		Store at ambient temperature.			
Pack	aging material	<ul> <li>Suitable material: For containers or container lini steel or high density polyethylene. Unsuitable material: PVC.</li> </ul>	ngs, use mild		
Cont	Container Advice : Polyethylene containers should not be exposed to high tem- peratures because of possible risk of distortion.				

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### SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA ((inhal- able frac- tion))	5 mg/m3	US. ACGIH Threshold Limit Values
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able fraction)	5 mg/m3	ACGIH

#### **Biological occupational exposure limits**

No biological limit allocated.

## **Monitoring Methods**

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 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

 Engineering measures
 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.
 General Information: 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.

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		equipment used equipment, loca Drain down sys nance. Retain drain do subsequent rec Always observe washing hands drinking, and/or protective equip	good personal hygiene measures, such as after handling the material and before eating, smoking. Routinely wash work clothing and ment to remove contaminants. Discard con- ing and footwear that cannot be cleaned.
Perso	onal protective equipr	nent	
Resp	iratory protection	conditions of us In accordance w tions should be If engineering of tions to a level select respirato cific conditions Check with resp Where air-filteri priate combinat Select a filter su	protection is ordinarily required under normal se. with good industrial hygiene practices, precau- taken to avoid breathing of material. controls do not maintain airborne concentra- which is adequate to protect worker health, ry protection equipment suitable for the spe- of use and meeting relevant legislation. biratory protective equipment suppliers. ng respirators are suitable, select an appro- tion of mask and filter. uitable for the combination of organic gases Type A/Type P boiling point >65°C (149°F)].
	protection marks	gloves approve US: F739) mad suitable chemic gloves Suitabilit usage, e.g. frec sistance of glov glove suppliers Personal hygier Gloves must or gloves, hands s cation of a non- For continuous through time of 480 minutes wh short-term/splas recognize that s may not be ava time maybe acc and replacement a good predictor	ntact with the product may occur the use of d to relevant standards (e.g. Europe: EN374, e from the following materials may provide cal protection. PVC, neoprene or nitrile rubber ty and durability of a glove is dependent on guency and duration of contact, chemical re- ve material, dexterity. Always seek advice from . Contaminated gloves should be replaced. ne is a key element of effective hand care. Ny be worn on clean hands. After using should be washed and dried thoroughly. Appli- perfumed moisturizer is recommended. contact we recommend gloves with break- more than 240 minutes with preference for > nere suitable gloves can be identified. For sh protection we recommend the same, but suitable gloves offering this level of protection ilable and in this case a lower breakthrough ceptable so long as appropriate maintenance in regimes are followed. Glove thickness is not or of glove resistance to a chemical as it is he exact composition of the glove material.

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			es should be typically greater than 0.35 mm the glove make and model.	
Eye protection		: If material is handled such that it could be splashed into eyes, protective eyewear is recommended.		
Skin and body protection		<ul> <li>Skin protection is not ordinarily required beyond standard work clothes.</li> <li>It is good practice to wear chemical resistant gloves.</li> </ul>		
Therr	nal hazards	: Not applicable		
Prote	ective measures		ective equipment (PPE) should meet recom- nal standards. Check with PPE suppliers.	

## Environmental exposure controls

General advice	<ul> <li>Take appropriate measures to fulfill 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.</li> <li>Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.</li> </ul>
	vapour.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid at room temperature.
Colour	:	amber
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-30 °C / -22 °F Method: ASTM D97
Initial boiling point and boiling range	:	> 280 °C / 536 °F estimated value(s)
Flash point	:	227 °C / 441 °F
		Method: ASTM D92 (COC)

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E	Evapora	ation rate	:	Data not availabl	e
F	Flamma	ability (solid, gas)	:	Data not availabl	e
ι	Upper e	explosion limit	:	Typical 10 %(V)	
L	_ower e	explosion limit	:	Typical 1 %(V)	
١	Vapour	pressure	:	< 0.5 Pa (20 °C / estimated value(	
F	Relative	e vapour density	:	> 1 estimated value(	s)
F	Relative	e density	:	0.879 (15 °C / 59	°F)
Γ	Density		:	879 kg/m3 (15.0	°C / 59.0 °F)Method: ASTM D4052
ę	Solubilit Wate	ty(ies) r solubility	:	negligible	
	Solut	oility in other solvents	:	Data not availabl	e
	Partitior	n coefficient: n- /water	:	Pow: > 6 (based on inform	ation on similar products)
A	Auto-igr	nition temperature	:	> 320 °C / 608 °F	=
١	Viscosit Visco	y osity, dynamic	:	Data not availabl	e
	Visco	osity, kinematic	:	112 mm2/s (40.0 Method: ASTM E	
				15 mm2/s (100 ° Method: ASTM D	
E	Explosiv	ve properties	:	Not classified	
(	Oxidizin	ng properties	:	Data not availabl	e
(	Conduc	tivity	:	This material is n	ot expected to be a static accumulator.
Γ	Decomp	position temperature	:	Data not availabl	e

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	: The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.	
Chemical stability	: Stable.	
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Poss tions	ibility of hazardous reac	- : Re	eacts with stro	ng oxidising agents.
Conc	litions to avoid	: Ex	tremes of tem	perature and direct sunlight.
Incor	npatible materials	: St	ong oxidising	agents.
Haza produ	rdous decomposition ucts		izardous deco ring normal ste	mposition products are not expected to form prage.

## SECTION 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).

### Information on likely routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

#### Acute toxicity

#### Product:

Acute oral toxicity	: LD50 (rat): > 5,000 mg/kg Remarks: Expected to be of low toxicity:	
Acute inhalation toxicity	: Remarks: Not considered to be an inhalation hazard unde normal conditions of use.	r
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Expected to be of low toxicity:	

#### Skin corrosion/irritation

### Product:

Remarks: 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.

#### Serious eye damage/eye irritation

#### Product:

Remarks: Expected to be slightly irritating.

## **Components:**

#### Zinc dialkyldithiophosphate:

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

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#### Respiratory or skin sensitisation

### Product:

Remarks: Not expected to be a skin sensitiser.

## **Components:**

### Ethylenediamine:

Remarks: May cause sensitisation of susceptible persons by skin contact or by inhalation of aerosol or dust.

### Germ cell mutagenicity

#### Product:

Genotoxicity in vivo

: Remarks: Not considered a mutagenic hazard.

### Carcinogenicity

#### Product:

Remarks: Not expected to be carcinogenic.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies.

Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

## **Reproductive toxicity**

#### Product:

Effects on fertility

Remarks: Not expected to impair fertility. Not expected to be a developmental toxicant.

## STOT - single exposure

## Product:

Remarks: Not expected to be a hazard.

## STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

## Aspiration toxicity

## Product:

Not considered an aspiration hazard.

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#### Further information

## Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities 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.

Remarks: Continuous contact with used engine oils has caused skin cancer in animal tests.

Remarks: Slightly irritating to respiratory system.

## **SECTION 12. ECOLOGICAL INFORMATION**

Basis for assessment :		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 representa- tive of the product as a whole, rather than for individual com- ponent(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Ecotoxicity		
Product: Toxicity to fish (Acute toxici- ty)	:	Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to crustacean (Acute toxicity)	:	Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to algae/aquatic plants (Acute toxicity)	:	Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to fish (Chronic tox- icity)	:	Remarks: Data not available
Toxicity to crustacean	:	Remarks: Data not available
(Chronic toxicity) Toxicity to microorganisms (Acute toxicity)	:	Remarks: Data not available
Persistence and degradability	y	
Product:		
Biodegradability	:	Remarks: Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegrada- ble, but contains components that may persist in the environ-
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			ment.		
Bioa	ccumulative potential				
Prod	uct:				
	Bioaccumulation		Remarks: Contains components with the potential to bioac- cumulate.		
	Partition coefficient: n- octanol/water		Pow: > 6 Remarks: (based on information on similar products)		
Mobi	lity in soil				
Prod	<u>uct:</u>				
Mobil			Remarks: Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile.		
			Remarks: Floats	s on water.	
Othe	r adverse effects				
Prod	uct:				
	Additional ecological infor- mation		expected to be r Not expected to	ture of non-volatile components, which are not released to air in any significant quantities. have ozone depletion potential, photochemi- on potential or global warming potential.	
			Poorly soluble n May cause phys	nixture. sical fouling of aquatic organisms.	
				t expected to cause any chronic effects to ns at concentrations less than 1 mg/l.	

# SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste.
	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or na- tional requirements and must be complied with.
Contaminated packaging	: Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.
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	Disposal should be in accordance with applicable regional, national, and local laws and regulations.				
SECTION	N 14. TRANSPORT IN	IFORMATION			
National	Regulations				
TDG Not	<b>;</b> regulated as a danger	ous good			
Internati	onal Regulations				
	A-DGR regulated as a danger	ous good			
	<b>G-Code</b> regulated as a danger	ous good			
Transpo	rt in bulk according f	to Annex II of MARPO	L 73/78 and the IBC Code		
	ution category	: Not applicable : Not applicable			

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Pollution category Ship type Product name Special precautions	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
Special precautions for user	
Remarks	: Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.
Additional Information	: MARPOL Annex 1 rules apply for bulk shipments by sea.

## **SECTION 15. REGULATORY INFORMATION**

### Safety, health and environmental regulations/legislation specific for the substance or mixture

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

The components of this product are reported in the following inventories:			
EINECS	: All components listed or polymer exempt.		
TSCA	: All components listed.		
	·		
DSL	: All components listed.		

## **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

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AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil: ASTM - American Society for the Testing of Materials: bw - Body weight: CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

A vertical bar (|) in the left margin indicates an amendment from the previous version. Revision Date : 2016-10-06

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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