In accordance with the provisions of Article 41, Industrial Safety & Health

Act Shell Ondina Oil 15

Version 1.4	Rev	sion Date 2018.10.26	Print Date 2018.10.27
1. PRODUCT AND COMPANY I	DENTIFICA	TION	
Product name	: Shell	Ondina Oil 15	
Product code	: 001A	.0781	
CAS-No. Recommended use of the cl	: 8042 emical and		
Recommended use	: Proc	ess oil.	
Manufacturer or supplier's	details		
Supplier	7FL (CHU OR (Seou	ook Shell Oil Co., Ltd CHONGKUNDANG BLDG. NGJEOING-RO, SEODAEN K.P.O BOX 608) I n Korea	
Telephone Telefax		hnical Department) 02-3149 64-5029, 051-620-5182	9- 5462, 051-620-5137
Emergency telephone number	5137	ıl 02-3149-5462, Fax 02-36 ′, Fax 051-620-5182	
Email Contact for Safety Data Sheet	: LUE	BRICANTSSDS-KR@SHEL	L.COM
2. HAZARDS IDENTIFICATION			
GHS Classification			
Aspiration hazard	: Cate	egory 1	

: Danger
 PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: H304 May be fatal if swallowed and enters airways. ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria.
: Prevention: No precautionary phrases.

Response: P301 + P310 IF SWALLOWED: Immediately call a POISON

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	CENTER/doctor. P331 Do NOT induce vomiting.	
	Storage: P405 Store locked up.	
	Disposal: P501 Dispose of contents/ contai disposal plant.	ner to an approved waste
Hazardous components	: Contains white mineral oil (peti	roleum).
Other hazards which do not r	esult in classification	
3. COMPOSITION/INFORMATION	ON INGREDIENTS	
Substance / Mixture	: Substance	

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

Components

Chemical name	Common Name	CAS-No.	Concentration [%]
White mineral oil	White mineral oil	8042-47-5	<= 100
	(petroleum)		

IRST-AID MEASURES	
In case of eye contact	: Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing.
	If persistent irritation occurs, obtain medical attention.
In case of 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.
If inhaled	: No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

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If swallowed	: Call emergency number for your If swallowed, do not induce vomi medical facility for additional trea spontaneously, keep head below If any of the following delayed sig within the next 6 hours, transport facility: fever greater than 101° F breath, chest congestion or conti	iting: transport to nearest atment. If vomiting occurs v hips to prevent aspiration. gns and symptoms appear t to the nearest medical F (38.3°C), shortness of
Most important symptoms and effects, both acute and delayed	 If material enters lungs, signs an coughing, choking, wheezing, dif congestion, shortness of breath, The onset of respiratory symptor several hours after exposure. Defatting dermatitis signs and sy burning sensation and/or a dried Ingestion may result in nausea, y 	fficulty in breathing, chest and/or fever. ms may be delayed for mptoms may include a /cracked appearance.
Protection of first-aiders	: When administering first aid, ens appropriate personal protective e incident, injury and surroundings	equipment according to the
Notes to physician	: Potential for chemical pneumonit Call a doctor or poison control ce	

5. FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing media

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during firefighting	:	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 methods	:	Use extinguishing measures that are appropriate to local circumstances 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

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elevant Standards (e.g. Europe: EN4	69).
6	
	levant Standards (e.g. Europe: EN4

Personal precautions, protective equipment and emergency procedures	: Avoi	d contact with skin and eyes.
Environmental precautions	cont	appropriate containment to avoid environmental amination. Prevent from spreading or entering drains, nes or rivers by using sand, earth, or other appropriate iers.
		al authorities should be advised if significant spillages not be contained.
Methods and materials for containment and cleaning up	Prev or of Rec Soal	bery when spilt. Avoid accidents, clean up immediately. Yent from spreading by making a barrier with sand, earth ther containment material. Iaim liquid directly or in an absorbent. Iaim liquid with an absorbent such as clay, sand or other able material and dispose of properly.
Additional advice	see For	guidance on selection of personal protective equipment Chapter 8 of this Safety Data Sheet. guidance on disposal of spilled material see Chapter 13 of Safety Data Sheet.

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.
Advice on safe handling	 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.
Avoidance of contact	: Strong oxidising agents.
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.

Storage

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Other data	:	 Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. 	
		Store at ambient temperature.	
Packaging material	:	Suitable material: For containers or consteel or high density polyethylene. Unsuitable material: PVC.	ntainer linings, use mild
Container Advice	:	Polyethylene containers should not be temperatures because of possible risk	

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
Oil mist, mineral	Not Assigned	TWA (Inhalable 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

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

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Engineering measures	: The level of protection and types of vary depending upon potential exp controls based on a risk assessme Appropriate measures include: Adequate ventilation to control airb	oosure conditions. Select ent of local circumstances.
	Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.	
	General Information:	
	Define procedures for safe handlin controls.	ig and maintenance of
	Educate and train workers in the h measures relevant to normal activi product.	
	Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.	
	Drain down system prior to equipm maintenance.	
	Retain drain downs in sealed storage pending disposal or subsequent recycle.	
	Always observe good personal hyd washing hands after handling the r drinking, and/or smoking. Routine protective equipment to remove co contaminated clothing and footwea Practice good housekeeping.	material and before eating, ly wash work clothing and ontaminants. Discard

Personal protective equipment

Protective measures

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

Respiratory protection	: 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 the combination of organic gases and vapours [Type A/Type P boiling point >65°C (149°F)].
Eye protection	: If material is handled such that it could be splashed into eyes, protective eyewear is recommended.
Hand protection Remarks	: Where hand contact with the product may occur the use of
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	gloves approved to relevant stan US: F739) made from the followi suitable chemical protection. PV/ gloves Suitability and durability of usage, e.g. frequency and durati resistance of glove material, dex from glove suppliers. Contamina replaced. Personal hygiene is a l care. Gloves must only be worn gloves, hands should be washed Application of a non-perfumed m	ng materials may provide C, neoprene or nitrile rubber of a glove is dependent on on of contact, chemical terity. Always seek advice ted gloves should be key element of effective hand on clean hands. After using I and dried thoroughly.
	For continuous contact we recombreakthrough time of more than a for > 480 minutes where suitable short-term/splash protection we recognize that suitable gloves of may not be available and in this of time maybe acceptable so long a and replacement regimes are fol a good predictor of glove resistand dependent on the exact composition of the glove thickness should be typication of the glove make and the glove ma	240 minutes with preference e gloves can be identified. For recommend the same, but fering this level of protection case a lower breakthrough as appropriate maintenance lowed. Glove thickness is not nce to a chemical as it is ition of the glove material. ally greater than 0.35 mm
Skin and body protection	: Skin protection is not ordinarily re work clothes. It is good practice to wear chemi	
Thermal hazards	: Not applicable	
Environmental exposure c	ontrols	
General advice	: Take appropriate measures to fur relevant environmental protection contamination of the environmen Chapter 6. If necessary, prevent being discharged to waste water treated in a municipal or industria before discharge to surface wate Local guidelines on emission lim must be observed for the dischar vapour.	n legislation. Avoid t by following advice given in t undissolved material from . Waste water should be al waste water treatment plant er. its for volatile substances
9. PHYSICAL AND CHEMICAL PROPERTIES		

Appearance	: Liquid at room temperature.
Colour	: colourless
Odour	: Slight hydrocarbon
Odour Threshold	: Data not available
рН	: Not applicable

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pour point	Revision Date 2018.10.26 : -12 °C / 10 °FMethod: ISO 3016	Print Date 2018.10
	12 C/ 10 T Method. 130 3010	
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value	e(S)
Flash point	: 180 °C / 356 °F Method: ISO 2592	
Evaporation rate	: Data not available	
Flammability (solid, gas)	: Data not available	
Upper/Lower explosion limit		
Upper explosion limit	: Typical 10 %(V)	
Lower explosion limit	: Typical 1 %(V)	
Vapour pressure	: < 0.5 Pa (20 °C / 68 °F) estimated value(s)	
Solubility(ies)		
Water solubility	: negligible	
Solubility in other solvents	: Data not available	
Relative vapour density	: > 1estimated value(s)	
Relative density	: 0.850 (15 °C / 59 °F)	
Density	: 850 kg/m3 (15.0 °C / 59.0 °F) Method: ISO 12185	
Partition coefficient: n- octanol/water	: log Pow: > 6(based on informatio	n on similar products)
Auto-ignition temperature	: > 320 °C / 608 °F	
Decomposition temperature	: Data not available	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 15 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D 445	
	3.3 mm2/s (100 °C / 212 °F) Method: ASTM D 445	

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Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to be	e a static accumulator.
Molecular weight	: Not applicable	

10. STABILITY AND REACTIVITY

	The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph. Stable. Reacts with strong oxidising agents.
Conditions to avoid	: Extremes of temperature and direct sunlight.
Incompatible materials	: Strong oxidising agents.
Hazardous decomposition products	: No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Basis for assessment	: Information given is based on data on the components and the toxicology of similar products.
Health hazard information	
Acute toxicity	
Product:	
Acute oral toxicity	 LD50 rat: > 5,000 mg/kg Remarks: Low toxicity: Based on available data, the classification criteria are not met.
	Remarks: Aspiration into the lungs may cause chemical pneumonitis which can be fatal.
Acute inhalation toxicity	: LC 50 Rat: > 5 mg/l Exposure time: 4 h Remarks: Low toxicity by inhalation.
Acute dermal toxicity	: LD50 Rabbit: > 5,000 mg/kg Remarks: Low toxicity:
Skin corrosion/irritation	

Skin corrosion/irritation

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Product:

Remarks: Not irritating to skin., Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

Serious eye damage/eye irritation

Product:

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:

Remarks: Not a skin sensitiser. Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

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

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).

Material	GHS/CLP Carcinogenicity Classification	
Highly refined mineral oil	No carcinogenicity classification.	

Germ cell mutagenicity

Product:

: Remarks: Non mutagenic

Reproductive toxicity

Product:

Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.

STOT - single exposure

Product:

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

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STOT - repeated exposure

Product:

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

Aspiration toxicity

Product:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

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: Slightly irritating to respiratory system.

12. ECOLOGICAL INFORMATION

	Basis for assessment	:	Incomplete ecotoxicological data are available for this product. The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products. Remarks
Ecc	otoxicity		
	Product:		
	Toxicity to fish (Acute toxicity)	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
	Toxicity to crustacean (Acute toxicity)	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
	Toxicity to algae/aquatic plants (Acute toxicity)	:	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
	Toxicity to fish (Chronic	:	Remarks: NOEC/NOEL > 1 mg/l
	toxicity) Toxicity to crustacean (Chronic toxicity)	:	Remarks: NOEC/NOEL > 1 mg/l
	Toxicity to microorganisms	:	Remarks: LL/EL/IL50 > 100 mg/l

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(Acute toxicity)	Practically non toxic: Based on available data, the classification	ation criteria are not met.
Persistence and degradability		
Product:		
Biodegradability	: Remarks: Major constituents are inhe contains components that may persis Based on available data, the classifica	t in the environment.,
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: Contains constituents with bioaccumulate.	the potential to
Partition coefficient: n- octanol/water	: log Pow: > 6Remarks: (based on info products)	rmation on similar
Mobility in soil		
Product:		
Mobility	 Remarks: If it enters soil, it will adsorb not be mobile. Remarks: Floats on water. 	to soil particles and will
Other adverse effects		
no data available <u>Product:</u>		
Additional ecological information	: Causes physical fouling of aquatic org	janisms.
	Mineral oil does not cause chronic tox organisms at concentrations less thar	

13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 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
	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.
Contaminated packaging	: Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of

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	the collector or contractor should be Disposal should be in accordance national, and local laws and regula	with applicable regional,
Local legislation Remarks	: Disposal should be in accordance national, and local laws and regula	

Disposal considerations

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

National Regulations

Refer to section 15 for specific national regulation.

International Regulations

ADR

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

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.

15. REGULATORY INFORMATION

National regulatory information

INDUSTRY SAFETY & HEALTH ACT:	Hazardous substances prohibited from manufacturing, etc., Not applicable
	Hazardous substances subject to authorization, Not applicable
	Substances established for exposure limits, Not applicable

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Version 1.4 Revision Date 2018.10.26 Print Date 2018.10.27 Hazardous substances subject to control, Not applicable Hazardous factor subject to keep below permissible limit, Not applicable Hazardous Factors Subject to Working Environment Monitoring, Not applicable Hazardous Factors Subject to Special Medical Examination, Not applicable CHEMICALS CONTROL ACT: Toxic chemical substances, Not applicable Authorization chemical substances, Not applicable Restricted chemical substances, Not applicable Prohibited chemical substances, Not applicable Accident precaution chemical substance, Not applicable DANGEROUS GOODS SAFE CONTROL ACT: Category 4 Dangerous Goods (Flammable Liquids), Grade 3 petroleum chemicals WASTES MANAGEMENT ACT: Designated waste, Applicable

Other requirements in domestic and other countries

The components of this product are reported in the following inventories:EINECS/ELINCS/EC: All components listed or polymer exempt.TSCA: All components listed.KECI: All components listed.

16. OTHER INFORMATION

Full text of other abbreviations

Asp. Tox. Aspiration hazard

AIIC -Australian Inventory of Industrial Chemicals; 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 -

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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

Further information

Training advice	:	Provide adequate information, instruction and training for operators.
Sources of key data used to compile the Safety Data Sheet	:	The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).
		The content and format of this safety data sheet is in accordance with the GHS guidelines.
Issuing date	:	2013.05.31
Revision number and date Number of Revision Revision Date Other information	:	1.4 2018.10.26 A vertical bar () in the left margin indicates an amendment from the previous version.

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Version 1.4Revision Date 2018.10.26Print Date 2018.10.27The 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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