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SECTI	ON 1. IDENTIFICATION			
Pi	oduct name	:	Spirax S4 AX 85	N-140
Pi	oduct code	:	001F4154	
М	anufacturer or supplier's	deta	ails	
Μ	anufacturer/Supplier	:	Shell Canada Pr 400 - 4th Avenue Calgary AB T2P Canada	S.W
	elephone elefax	:	(+1) 8006611600 (+1) 4033848345	
Eı be	nergency telephone num- er	:	(US)	hr): 1 (703) 527-3887 or 1 (800) 424-9300): (+1) 613-996-6666; Toll Free: 1-888-CAN-)
R	ecommended use of the c	her	nical and restriction	ons on use
R	ecommended use	:	Transmission oil.	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Based on available data this substance / mixture does not meet the classification criteria.

GHS label elements

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

No precautionary phrases. **Disposal:** No precautionary phrases. 28.12.2018 20.11.2014

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	: Spirax S4 AX 85W-140
Chemical nature	: Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSO- extract, according to IP346.

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Dialkylpolysulphide	68937-96-2	1 - 3
Amine phosphate	Not Assigned	1 - 2.4
Alkenyl imidazoline	27136-73-8	0.1 - 0.24

SECTION 4. FIRST-AID MEASURES

If inhaled	:	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
In case of skin contact	:	Remove contaminated clothing. Flush exposed area with wa- ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
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.
If swallowed	:	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Most important symptoms and effects, both acute and delayed	:	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.
Protection of first-aiders	:	When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.

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Notes to physician : Treat symptomatically.

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. 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.
Additional advice	:	For guidance on selection of personal protective equipment
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					this Safety Data Sheet. disposal of spilled material see Chapter 13 of Sheet.	
SEC	TION 7	. HANDLING AND S	TOR/	AGE		
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 as- sessment of local circumstances to help determine appropri- ate 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 mate- rials in order to prevent fires.			
	Avoidar	nce of contact	:	Strong oxidising a	igents.	
I	Product Transfer		:	Proper grounding and bonding procedures should be used during all bulk transfer operations to avoid static accumulation		
:	Storage	e				
Other data		:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.			
				Store at ambient	temperature.	
I	Packag	ing material	:	Suitable material: steel or high dens Unsuitable materi		
Container Advice		:	Polyethylene containers should not be exposed to high tem- peratures because of possible risk of distortion.			

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 (Mist)	5 mg/m3	OSHA Z-1

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	TWA (Inhal- able fraction)	5 mg/m3	ACGIH
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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.

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 equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or 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 work clothing and protective equipment to remove contaminants. Discard con-

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		taminated cloth Practice good h	ing and footwear that cannot be cleaned. ousekeeping.
Pers	onal protective equip	ment	
Resp	biratory protection	conditions of us In accordance w tions should be If engineering c tions to a level w select respirator cific conditions of Check with resp Where air-filterin priate combinat	vith good industrial hygiene practices, precau- taken to avoid breathing of material. ontrols 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- ion of mask and filter.
	1		uitable for the combination of organic gases ype A/Type P boiling point >65°C (149°F)].
	d protection emarks	gloves approved US: F739) made suitable chemic gloves Suitabilit usage, e.g. freq sistance of glov glove suppliers. Personal hygier Gloves must on 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 replacemer a good predicto dependent on th Glove thickness	ntact with the product may occur the use of d to relevant standards (e.g. Europe: EN374, e from the following materials may provide al protection. PVC, neoprene or nitrile rubber y and durability of a glove is dependent on uency and duration of contact, chemical re- e material, dexterity. Always seek advice from Contaminated gloves should be replaced. ne is a key element of effective hand care. ly be worn on clean hands. After using hould be washed and dried thoroughly. Appli- perfumed moisturizer is recommended. contact we recommend gloves with break- more than 240 minutes with preference for > ere 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 eptable so long as appropriate maintenance at regimes are followed. Glove thickness is not r of glove resistance to a chemical as it is ne exact composition of the glove material. a should be typically greater than 0.35 mm ne glove make and model.
Еуе р	protection		ndled such that it could be splashed into eyes, ear is recommended.
Skin	and body protection	work clothes.	is not ordinarily required beyond standard ce to wear chemical resistant gloves.

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Therma	al hazards	: Not applicable	
			ctive equipment (PPE) should meet recom- al standards. Check with PPE suppliers.
Enviro	onmental exposure	controls	
Genera	al advice	 Take appropriate measures to fulfill the requirements of r vant environmental protection legislation. Avoid contamin of the environment by following advice given in Chapter 6 necessary, prevent undissolved material from being dis- charged to waste water. Waste water should be treated in 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 contair vapour. 	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear, bright liquid.
Colour	: clear
Odour	: Slight hydrocarbon
Odour Threshold	: Data not available
рН	: Not applicable
pour point	: <= -12 °C / <= 10 °F Method: ASTM D5950
Initial boiling point and boiling range	: > 280 °C / 536 °F estimated value(s)
Flash point	: 200 °C / 392 °F
	Method: ASTM D92 (COC)
Evaporation rate	: Data not available
Flammability (solid, gas)	: Data not available
Upper explosion limit	: Typical 10 %(V)
Lower explosion limit	: Typical 1 %(V)
Vapour pressure	: < 0.5 Pa (20 °C / 68 °F)

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		estimated	value(s)
Relativ	ve vapour density	: > 1 estimated	value(s)
Relativ	ve density	: 0.901 (15	°C / 59 °F)
Densit	ty	: 901 kg/m3	3 (15.0 °C / 59.0 °F)Method: ASTM D1298
	ility(ies) ter solubility	: negligible	
Solubility in other solvents : Data not available		available	
Partition coefficient: n- octanol/water		: log Pow: : (based or	6 information on similar products)
Auto-i	Auto-ignition temperature		′ 608 °F
Decor	nposition temperature	: Data not a	available
Viscos Visc	sity cosity, dynamic	: Data not a	available
Viso	cosity, kinematic		m2/s (100 °C / 212 °F) .STM D445
Explos	sive properties	: Not classi	fied
Oxidiz	ing properties	: Data not a	available
Condu	uctivity	: This mate	rial is not expected to be a static accumulator.

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.
Possibility of hazardous reac- tions	: 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.

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SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment	Information given is based on data on the component the toxicology of similar products.Unless indicated oth the data presented is representative of the product as whole, rather than for individual component(s).	nerwise,
Information on likely routes Skin and eye contact are the p accidental ingestion.	<pre>kposure ry routes of exposure although exposure may occur f</pre>	ollowing
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.
Acute inhalation toxicity	Remarks: Based on available data, the classification of are not met.	criteria
Acute dermal toxicity	LD50 (Rabbit): > 5,000 mg/kg Remarks: Low toxicity: Based on available data, the classification criteria are	not met.

Skin corrosion/irritation

Product:

Remarks: Slightly irritating to skin.

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

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

Components:

Amine phosphate: Remarks: 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.

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Components:

Dialkylpolysulphide:

Remarks: Experimental data has shown that the concentration of potentially sensitising components present in this product does not induce skin sensitisation. May cause an allergic skin reaction in sensitive individuals.

Amine phosphate:

Remarks: Experimental data has shown that the concentration of potentially sensitising components present in this product does not induce skin sensitisation. May cause an allergic skin reaction in sensitive individuals.

Germ cell mutagenicity

Product:

Genotoxicity in vivo : Remarks: Non mutagenic

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).

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive toxicity	
Product:	
Effects on fertility	: Remarks: Not a developmental toxicant. Does not impair fertility. Based on available data, the classification criteria are not met.
STOT - single exposure	

Product:

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

STOT - repeated exposure

Product:

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

Aspiration toxicity

Product:

Not an aspiration hazard.

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: 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	:
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plant	plants (Acute toxicity)		LL/EL/IL50 > 100 mg/l v non toxic: available data, the classification criteria are not met.	
Toxic icity)	Toxicity to fish (Chronic tox- icity)		Remarks: Data not available	
	Toxicity to crustacean (Chronic toxicity) Toxicity to microorganisms (Acute toxicity)		Data not available	
Toxic			Remarks: Data not available	
<u>Com</u>	ponents:			
M-Fa	Alkenyl imidazoline: M-Factor (Acute aquatic tox- icity)			
Pers	istence and degradabil	y		
Prod	luct:			
Biode	Biodegradability		Not readily biodegradable. stituents are inherently biodegradable, but contains nts that may persist in the environment.	
Bioa	ccumulative potential			
Prod	luct:			
Bioa	ccumulation	: Remarks: cumulate.	Contains components with the potential to bioac-	
	Partition coefficient: n- octanol/water		6 (based on information on similar products)	
Mob	ility in soil			
Prod	luct:			
Mobi	lity		Liquid under most environmental conditions. soil, it will adsorb to soil particles and will not be	
		Remarks:	Floats on water.	
Othe	er adverse effects			
Prod	luct:			
	tional ecological infor-	ozone cre Product is	have ozone depletion potential, photochemical ation potential or global warming potential. a mixture of non-volatile components, which will not ed to air in any significant quantities under normal s of use.	
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Poorly soluble mixture. Causes physical fouling of aquatic organisms.

Mineral oil does not cause chronic toxicity to aquatic organisms at concentrations less than 1 mg/l.

SECTION 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 meth- ods 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 the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Local legislation Remarks :	Disposal should be in accordance with applicable regional, national, and local laws and regulations.

SECTION 14. TRANSPORT INFORMATION

National Regulations

TDG

Not regulated as a dangerous good

International Regulations

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.

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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.

SECTION 15. REGULATORY INFORMATION

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

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

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/ELINCS/EC	: All components listed or polymer exempt.	
TSCA	: All components listed.	
DSL	: All components listed.	

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

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 - 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

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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 marg Sources of key data used to compile the Safety Data Sheet		indicates an amendment from the previous version. 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).
Revision Date	:	2019-01-03

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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