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SECTION 1. IDENTIFICATION

Product name	Shell Mysella S3 N 40	
Product code Manufacturer or supplier's de	001E7181 ails	
Manufacturer/Supplier	: Shell Oil Products US PO Box 4427 Houston TX 77210-44 USA	-
SDS Request Customer Service	: (+1) 877-276-7285 :	
Emergency telephone number Spill Information Health Information	: 877-504-9351 : 877-242-7400	

Recommended use of the chemical and restrictions on use Recommended use : Engine oil.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

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

СПС	lahal	alamanta
впэ	laber	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. Storage: 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.

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Used oil may contain harmful impurities. Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (%)
Polyolefin amide al- keneamine	Amines, polyeth- ylenepoly-, reaction products with suc- cinic anhydride poly- isobutenyl derivs.	84605-20-9	1 - 3
Sulphurised calcium phen- ate		Not Assigned	1 - 3
Calcium alkaryl sulphonate		Not Assigned	0.1 - 0.9

SECTION 4. FIRST-AID MEASURES

General advice	Not expected to be a health hazard when used under conditions.	normal
If inhaled	No treatment necessary under normal conditions of us If symptoms persist, obtain medical advice.	se.
In case of skin contact	Remove contaminated clothing. Flush exposed area w 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. Co rinsing. If persistent irritation occurs, obtain medical attention.	
If swallowed	In general no treatment is necessary unless large qua are swallowed, however, get medical advice.	ntities
Most important symptoms and effects, both acute and delayed	Oil acne/folliculitis signs and symptoms may include for of black pustules and spots on the skin of exposed are Ingestion may result in nausea, vomiting and/or diarrh	eas.
Protection of first-aiders	When administering first aid, ensure that you are wear appropriate personal protective equipment according t	

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	incident, injury and surroundings.	
Immediate medical attention, special treatment	: 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.

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Additional advice	: For guidance on selection of pe see Chapter 8 of this Safety Da For guidance on disposal of spi this Safety Data Sheet.	ta Sheet.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	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.
Precautions for 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.
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		
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 container linings, use mild steel or high density polyethylene. Unsuitable material: PVC.
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 ((inhal- able frac- tion))	5 mg/m3	US. ACGIH Threshold Limit Values
		(Mist)	5 mg/m3	OSHA_TRA

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		NS
TWA (Mist)	5 mg/m3	OSHA Z-1
TWA (Inhal- able fraction	•	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.

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 contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

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Version 1.3 Revision Date: 07/12/2017 Print Date: 07/13/2017 Personal protective equipment 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)]. Hand protection Remarks 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. Appli- cation of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with break- through 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 recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe 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.
Eye protection	:	If material is handled such that it could be splashed into eyes, protective eyewear is recommended.
Skin and body protection	:	Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves.
Thermal hazards	:	Not applicable

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

Environmental exposure controls

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General advice	: Take appropriate measures to frivant environmental protection le of the environment by following necessary, prevent undissolved charged to waste water. Waste municipal or industrial waste wa discharge to surface water. Local guidelines on emission lin must be observed for the dischar vapour.	egislation. Avoid contamination advice given in Chapter 6. If material from being dis- water should be treated in a ater treatment plant before nits for volatile substances

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	: -18 °C / -0.40 °FMethod: ISO 3016	
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value(s)	
Flash point	: 230 °C / 446 °F Method: ASTM D93 (PMCC)	
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) estimated value(s)	
Relative vapour density	: > 1estimated value(s)	
Relative density	: 0.890 (15 °C / 59 °F)	
Density	: 890 kg/m3 (15.0 °C / 59.0 °F) Method: ASTM D4052	
Solubility(ies) Water solubility	: negligible	
Solubility in other solvents	: Data not available	

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Partition coefficient: n- octanol/water	: Pow: > 6(based on information of	on similar products)
Auto-ignition temperature	: > 320 °C / 608 °F	
Viscosity Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 135 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
	13.5 mm2/s (100 °C / 212 °F) Method: ASTM D445	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to	be a static accumulator.
Decomposition temperature	: Data not available	

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	:	Hazardous decomposition products are not expected to form during normal storage.

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).
	whole, rather than for marvaula component(3).

Information on likely routes of exposure

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

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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 under normal conditions of use.
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.

Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a skin sensitiser.

Germ cell mutagenicity

Product:

: 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).

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.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino-

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	gen by OSHA.	
NTP	No component of this product present a equal to 0.1% is identified as a known o by NTP.	5
Reproductive toxicity		
Product:		
	: Remarks: Not expected to impair fert	ility., 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.

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).

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Ecotoxicity		
Product:		
Toxicity to fish (Acute toxici-	: Remarks: Expected to be pra	ctically non toxic:
ty)	LL/EL/IL50 > 100 mg/l	
Toxicity to daphnia and other	:	
aquatic invertebrates (Acute toxicity)	Remarks: Expected to be pra LL/EL/IL50 > 100 mg/l	ctically non toxic:
Toxicity to algae (Acute tox-	:	
icity)	Remarks: Expected to be pra LL/EL/IL50 > 100 mg/l	ctically non toxic:
Toxicity to fish (Chronic tox- icity)	: Remarks: Data not available	
	: Remarks: Data not available	
aquatic invertebrates (Chron- ic toxicity)		
Toxicity to bacteria (Acute toxicity)	: Remarks: Data not available	
Persistence and degradabili	ty	
Product:		
Biodegradability		readily biodegradable. ted to be inherently biodegrada- that may persist in the environ-
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: Contains compone cumulate.	nts with the potential to bioac-
Mobility in soil		
Product:		
Mobility	: Remarks: Liquid under most If it enters soil, it will adsorb to mobile.	environmental conditions. o soil particles and will not be
	Remarks: Floats on water.	
Other adverse effects		
no data available		
Product: Additional ecological infor-	: Product is a mixture of non-ve	alatile componente which are p
mation	expected to be released to ai	

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	Not expected to have ozone de cal ozone creation potential or g Poorly soluble mixture. May cause physical fouling of a Mineral oil is not expected to ca aquatic organisms at concentra	global warming potential. Iquatic organisms. ause any chronic effects to
SECTION 13. DISPOSAL CONS	IDERATIONS	
Disposal methods		
Waste from residues	: Recover or recycle if possible. It is the responsibility of the was toxicity and physical properties determine the proper waste cla ods in compliance with applicat Do not dispose into the environ courses	of the material generated to ssification and disposal meth- ple regulations.
	Waste product should not be al ground water, or be disposed o Waste, spills or used product is	f into the environment.
Contaminated packaging	: Dispose in accordance with pre to a recognized collector or con the collector or contractor shou Disposal should be in accordan national, and local laws and rec	tractor. The competence of Id be established beforehand. Ince with applicable regional,
Local legislation		
Remarks	: Disposal should be in accordan national, and local laws and reg	

SECTION 14. TRANSPORT INFORMATION

National Regulations

US Department of Transportation Classification (49 CFR Parts 171-180)

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

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Pollution category Ship type Product name Special precautions	 Not applicable Not applicable Not applicable Not applicable 	
Special precautions for user		
Remarks	 Special Precautions: Refer to C for special precautions which a needs to comply with in connect 	user needs to be aware of or
Additional Information	: MARPOL Annex 1 rules apply for	or bulk shipments by sea.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 302	:	No chemicals in this material are subject to the reporting re- quirements of SARA Title III, Section 302.
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

Pennsylvania Right To Know				
Distillates (petro heavy paraffinio	oleum), solvent-dewaxed 64742-65-0			
California Prop 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.			
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.			

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SECTION 16. OTHER INFORMATION

Further information

NFPA Rating (Health, Fire, Reac- 0, 1, 0 tivity)

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.

> ACGIH = American Conference of Governmental Industrial **Hvaienists** ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials **BEL = Biological exposure limits** BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals ECHA = European Chemicals Agency EINECS = The European Inventory of Existing Commercial **Chemical Substances** EL50 = Effective Loading fifty ENCS = Japanese Existing and New Chemical Substances Inventory EWC = European Waste Code GHS = Globally Harmonised System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer IATA = International Air Transport Association IC50 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG = International Maritime Dangerous Goods INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables KECI = Korea Existing Chemicals Inventory LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading

LL50 = Lethal Loading fifty

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	MARPOL = International Conve Pollution From Ships NOEC/NOEL = No Observed Effect Level OE_HPV = Occupational Expos PBT = Persistent, Bioaccumulat PICCS = Philippine Inventory of Substances PNEC = Predicted No Effect Co REACH = Registration Evaluation Chemicals RID = Regulations Relating to In gerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure lim TRA = Targeted Risk Assessme TSCA = US Toxic Substances O TWA = Time-Weighted Average vPvB = very Persistent and very	ffect Concentration / No Ob- sure - High Production Volume tive and Toxic f Chemicals and Chemical oncentration on And Authorisation Of nternational Carriage of Dan- nit ent Control Act			
Sources of key data used to compile the Safety Data Sheet	: The quoted data are from, but n sources of information (e.g. toxion Health Services, material suppli IUCLID date base, EC 1272 reg	cological data from Shell ers' data, CONCAWE, EU			
Revision Date	: 07/12/2017				
This information is based on	This information is based on our ourrent knowledge and is intended to describe the product for				

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.