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SECTION 1. IDENTIFICATION

Product name :		Shell Mysella S5 N 15W-40
Product code : Manufacturer or supplier's der	ta	001E7184 ils
Manufacturer/Supplier	:	Shell Oil Products US PO Box 4427 Houston TX 77210-4427 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 : Engine oil.

Recommended use

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. 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
Alkylated phenol ester		125643-61-0	1 - 3
Overbased sulphurised calcium phenate	Phenol, dodecyl-, sulfurized, car- bonates, calcium salts, overbased	68784-26-9	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 norma conditions.	al
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. 	a-
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. 	on

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Protection of first-aiders	: When administering first aid, ensu appropriate personal protective en incident, injury and surroundings.	quipment according to the
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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Version 1.3 Revision Date: 11/30/2017 Print Date: 12/01/2017 Additional advice : For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Safety Data 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. : Avoid prolonged or repeated contact with skin. Precautions for safe handling 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 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 temperatures 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	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Oil mist, mineral	Not Assigned	TWA ((inhal-	5 mg/m3	US. ACGIH
		able frac-		Threshold

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tion))		Limit Values
(Mist)	5 mg/m3	OSHA_TRA NS
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.

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 clothing and footwea Practice good housekeeping.	ar that cannot be cleaned.
Personal protective equipn	nent	
Respiratory protection	 No respiratory protection is ord conditions of use. In accordance with good indus tions should be taken to avoid If engineering controls do not r tions to a level which is adequa select respiratory protection ed cific conditions of use and mee Check with respiratory protecti Where air-filtering respirators a priate combination of mask and Select a filter suitable for the c and vapours [Type A/Type P t 	atrial hygiene practices, precau breathing of material. maintain airborne concentra- ate to protect worker health, quipment suitable for the spe- eting relevant legislation. ve equipment suppliers. are suitable, select an appro- d filter. ombination of organic gases
Hand protection		
Remarks	: Where hand contact with the p gloves approved to relevant sta US: F739) made from the follo suitable chemical protection. P gloves Suitability and durability usage, e.g. frequency and dura sistance of glove material, dex glove suppliers. Contaminated Personal hygiene is a key elen Gloves must only be worn on o gloves, hands should be wash cation of a non-perfumed mois For continuous contact we rece through time of more than 240 480 minutes where suitable gloves may not be available and in thi time maybe acceptable so long and replacement regimes are f a good predictor of glove resis dependent on the exact compo Glove thickness should be typi depending on the glove make	andards (e.g. Europe: EN374, wing materials may provide VC, neoprene or nitrile rubber y of a glove is dependent on ation of contact, chemical re- terity. Always seek advice fror gloves should be replaced. nent of effective hand care. clean hands. After using ed and dried thoroughly. Appli durizer is recommended. ommend gloves with break- minutes with preference for > oves can be identified. For e recommend the same, but offering this level of protection is case a lower breakthrough g as appropriate maintenance followed. Glove thickness is no tance to a chemical as it is osition of the glove material. ically greater than 0.35 mm
Eye protection	: If material is handled such that protective eyewear is recomme	
Skin and body protection	: Skin protection is not ordinarily work clothes. It is good practice to wear cher	
Thermal hazards	: Not applicable	
Protective measures	: Personal protective equipment	t (PPE) should meet recom-

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mended national standards. Check with PPE suppliers.

Environmental exposure controls

General advice	 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. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.
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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	:	-24 °C / -11 °FMethod: ISO 3016
Initial boiling point and boiling range	:	> 280 °C / 536 °Festimated value(s)
Flash point	:	210 °C / 410 °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)

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Water solubility	: negligible	
Solubility in other solvents	: Data not available	
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, dynamic	. Data not available	
Viscosity, kinematic	: 105 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 I	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	the toxicology of similar pro the data presented is repre	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).

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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 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.

Components:

Calcium alkaryl sulphonate:

Remarks: May cause an allergic skin reaction in sensitive individuals.

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).

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IARC	No component of this product prese equal to 0.1% is identified as probat human carcinogen by IARC.	
ACGIH	No component of this product prese equal to 0.1% is identified as a carc gen by ACGIH.	
OSHA	No component of this product prese equal to 0.1% is on OSHA's list of re	•
NTP	No component of this product prese equal to 0.1% is identified as a know by NTP.	5
Reproductive toxicity		
Product:		

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.

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

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Basis for assessment	for this product. Information given is based and the ecotoxicology of s Unless indicated otherwise tive of the product as a wh	e, the data presented is represent hole, rather than for individual com pressed as the nominal amount of
Ecotoxicity		
<u>Product:</u> Toxicity to fish (Acute toxici- ty)	: Remarks: Expected to be LL/EL/IL50 > 100 mg/I	practically non toxic:
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	: Remarks: Expected to be LL/EL/IL50 > 100 mg/l	practically non toxic:
Toxicity to algae (Acute tox- icity)	: Remarks: Expected to be LL/EL/IL50 > 100 mg/l	practically non toxic:
Toxicity to fish (Chronic tox- icity)	: Remarks: Data not availab	ble
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	: Remarks: Data not availat	ble
Toxicity to bacteria (Acute toxicity)	: Remarks: Data not availab	ble
Persistence and degradabili	y	
<u>Product:</u> Biodegradability		not readily biodegradable. bected to be inherently biodegrada ents that may persist in the enviror
Bioaccumulative potential		
Product: Bioaccumulation	: Remarks: Contains compo cumulate.	onents with the potential to bioac-
Mobility in soil		
Product:		
Mobility		ost environmental conditions. rb to soil particles and will not be

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	Remarks: Floats on water.	
Other adverse effects		
no data available		
Product:		
Additional ecological infor- mation	 Product is a mixture of non-volat expected to be released to air in Not expected to have ozone dep cal ozone creation potential or g 	any significant quantities. Detion potential, photochemi-
	Poorly soluble mixture. May cause physical fouling of ac	quatic organisms.
	Mineral oil is not expected to cau aquatic organisms at concentrat	

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

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

Not regulated as a dangerous good

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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.

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

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 paraffinic	leum), solvent-dewaxed	64742-65-0		
California Pro	p 65		ain any chemicals known to State er, birth defects, or any other re-		
The components of this product are reported in the following inventories:					
EINECS	:	All components listed or po	lymer exempt.		

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TSCA	: All components listed.	
DSL	: All components listed.	

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 **Hygienists** 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

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	LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent LL/EL/IL = Lethal Loading/Effecti LL50 = Lethal Loading fifty MARPOL = International Conven Pollution From Ships NOEC/NOEL = No Observed Effect served Effect Level OE_HPV = Occupational Exposu PBT = Persistent, Bioaccumulativ PICCS = Philippine Inventory of O Substances PNEC = Predicted No Effect Con REACH = Registration Evaluation Chemicals RID = Regulations Relating to Int gerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessmen TSCA = US Toxic Substances Co TWA = Time-Weighted Average vPvB = very Persistent and very	tion for the Prevention of ect Concentration / No Ob- are - High Production Volume ve and Toxic Chemicals and Chemical accentration in And Authorisation Of ternational Carriage of Dan- t nt
Sources of key data used to compile the Safety Data Sheet	: The quoted data are from, but no sources of information (e.g. toxic Health Services, material supplie IUCLID date base, EC 1272 regu	ological data from Shell rs' data, CONCAWE, EU
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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.