# Varnish Removal Fluid

Version 1.0		Revision Date 16.05.2024	Print Date 17.05.2024
1. PRODUCT AND COMPANY ID	EN.	TIFICATION	
Product name	:	Varnish Removal Fluid	
Product code	:	00114289	
Manufacturer or supplier's c	deta		
Supplier	:	Shell Singapore Pte. Ltd. (196000089G) The Metropolis Tower 1, 9 North Buona Vista Drive, #07-01 Singapore 138588 Singapore	
Telephone Telefax	:	(+65) 62632975 (+65) 62632049	
Emergency telephone number	:	+65 6263 2975	
Contact for Safety Data Sheet	:	If you have any enquiries about the c please email lubricantSDS@shell.cor	
Recommended use of the cl	hen	nical and restrictions on use	
Recommended use	:	Use only in industrial processes.	
Restrictions on use	:	This product must not be used in appli listed in Section 1 without first seeking supplier.	

### 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	<ul> <li>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.</li> </ul>	

Precautionary statements

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 Prevention:
 No precautionary phrases.
 Response:

 No precautionary phrases.
 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.Used oil may contain harmful impurities.Not classified as flammable but will burn.

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

Substance / Mixture :		Mixture
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Chemical nature : Synthetic base oil

Hazardous components Contains no hazardous ingredients according to GHS

#### 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	<ul> <li>Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.</li> <li>If persistent irritation occurs, obtain medical attention.</li> </ul>	
In case of eye contact	<ul> <li>Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>If persistent irritation occurs, obtain medical attention.</li> </ul>	
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.	n
Protection of first-aiders	: When administering first aid, ensure that you are wearing the	

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	appropriate personal protective equipment according to the incident, injury and surroundings.	
Notes to physician	: Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		
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	<ul> <li>Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates a gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.</li> </ul>	
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-Containe Breathing Apparatus must be worn when approaching a fire a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).	

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Avoid contact with skin and eyes.
Environmental precautions	: Use appropriate containment to avoid environmental contamination. 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 pers see Section 8 of this Safety Data For guidance on disposal of spille this Safety Data Sheet.	Sheet.
7. HANDLING AND STORAGE		
General Precautions	: Use local exhaust ventilation if the vapours, mists or aerosols. Use the information in this data sl assessment of local circumstance appropriate controls for safe hand this material.	heet as input to a risk as to help determine
Advice on safe handling	: Avoid prolonged or repeated cont Avoid inhaling vapour and/or mist When handling product in drums, worn and proper handling equipm Properly dispose of any contamin materials in order to prevent fires.	s. safety footwear should be nent should be used. ated rags or cleaning
Avoidance of contact	: Strong oxidising agents.	
Storage		
Other data	: Keep container tightly closed and place. Use properly labeled and closable	
	Store at ambient temperature.	
Packaging material	: Suitable material: For containers steel or high density polyethylene Unsuitable material: PVC.	
Container Advice	: Polyethylene containers should ne temperatures because of possible	

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
Oil mist, mineral	Not Assigned	PEL (long	5 mg/m3	SG OEL
	_	term) (Mist)	-	
Oil mist, mineral	Not Assigned	PEL (short	10 mg/m3	SG OEL
	-	term) (Mist)		

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Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
Oil mist, mineral	Not Assigned	TWA (Inhalable particulate matter)	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	<ul> <li>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.</li> <li>Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.</li> </ul>
	<ul> <li>General Information:</li> <li>Define procedures for safe handling and maintenance of controls.</li> <li>Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.</li> <li>Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.</li> <li>Drain down system prior to equipment break-in or maintenance.</li> <li>Retain drain downs in sealed storage pending disposal or subsequent recycle.</li> <li>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</li> </ul>

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	protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.
Personal protective equip	ment
Protective measures	
Personal protective equipm PPE suppliers.	ent (PPE) should meet recommended national standards. Check w
Respiratory protection	<ul> <li>No respiratory protection is ordinarily required under normal conditions of use.</li> <li>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 worke health, select respiratory protection equipment suitable for t 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 and particles [Type A/Type P boiling point &gt;65 (149°F)].</li> </ul>
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 rubbe 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 har care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
	from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective har care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

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	protective eyewear is recommended.
Skin and body protection	<ul> <li>Skin protection is not ordinarily required beyond standard work clothes.</li> <li>It is good practice to wear chemical resistant gloves.</li> </ul>
Thermal hazards	: Not applicable
Environmental exposure cor	trols
General advice	<ul> <li>Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Section 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.</li> </ul>
9. PHYSICAL AND CHEMICAL PR	OPERTIES
Appearance	: Liquid at room temperature.
Colour	: clear
Odour	: Data not available
Odour Threshold	: Data not available
рН	: Not applicable
pour point	: -39 °C / -38 °F Method: ASTM D5950
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value(s)
Flash point	: 222 °C / 432 °F Method: ASTM D92 (COC)
	192 °C / 378 °F Method: ASTM D93 (PMCC)
Evaporation rate	: Data not available
Flammability (solid, gas)	: Not applicable
Flammability (liquids)	: Not classified as flammable but will burn.
Upper explosion limit	: Typical 10 %(V)
Lower explosion limit	: Typical 1 %(V)

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Vapour pressure	: < 0.5 Pa (20 °C / 68 °F) estimated value(s)			
Relative vapour density	: >5			
Relative density	: 0.910 (15.0 °C / 59.0 °F)	: 0.910 (15.0 °C / 59.0 °F)		
Density	: 910 kg/m3 (15.6 °C / 60.1 °F) Method: ASTM D4052			
Solubility(ies)				
Water solubility	: negligible			
Solubility in other solvents	: Data not available			
Partition coefficient: n- octanol/water	: log Pow: > 6 (based on information on similar	products)		
Auto-ignition temperature	: > 320 °C / 608 °F	: > 320 °C / 608 °F		
Decomposition temperature	: Data not available			
Viscosity				
Viscosity, dynamic	: Data not available			
Viscosity, kinematic	: 29.3 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445			
	4.71 mm2/s (100 °C / 212 °F) Method: ASTM D445			
Particle characteristics Particle size	: Data not available			
Explosive properties	: Classification Code: Not classifie	d		
Oxidizing properties	: Data not available	: Data not available		
Conductivity	: This material is not expected to b	e a static accumulator.		
	(			
Reactivity	: The product does not pose any fu addition to those listed in the follo			

addition to those listed in the following sub-paragraph.
Chemical stability : Stable.

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Possibility of hazardous reactions	: 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 INFORMAT	N		
Basis for assessment	: Information given is based on data on the components the toxicology of similar products.Unless indicated othe the data presented is representative of the product as a whole, rather than for individual component(s).	erwise,	
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: Low toxicity Based on available data, the classification criteria are r	not met.	
Acute inhalation toxicity	: Remarks: Based on available data, the classification cr are not met.	iteria	
Acute dermal toxicity	: LD50 Rabbit: > 5,000 mg/kg Remarks: Low toxicity Based on available data, the classification criteria are r	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.

#### Respiratory or skin sensitisation

#### Product:

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

#### Germ cell mutagenicity

#### Product:

: 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.

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

#### **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.

#### 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

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as far as possible.

Remarks: Slightly irritating to respiratory system.

12. ECOLOGICAL INFORMATION	
Basis for assessment	<ul> <li>Ecotoxicological data have not been determined specifically for this product.</li> <li>Information given is based on a knowledge of the components and the ecotoxicology of similar products.</li> <li>Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).</li> </ul>
Ecotoxicity	
Product:	
Toxicity to fish (Acute toxicity)	: Remarks: Based on available data, the classification criteria are not met. Practically non toxic: LL/EL/IL50 > 100 mg/I
Toxicity to crustacean (Acute toxicity)	: Remarks: Based on available data, the classification criteria are not met. Practically non toxic: LL/EL/IL50 > 100 mg/I
Toxicity to algae/aquatic plants (Acute toxicity)	: Remarks: Based on available data, the classification criteria are not met. Practically non toxic: LL/EL/IL50 > 100 mg/I
Toxicity to fish (Chronic toxicity)	: Remarks: Based on available data, the classification criteria are not met.
Toxicity to crustacean (Chronic toxicity)	: Remarks: Based on available data, the classification criteria are not met.
Toxicity to microorganisms (Acute toxicity)	: Remarks: Based on available data, the classification criteria are not met.
Persistence and degradability	
Product:	
Biodegradability	: Remarks: Not readily biodegradable., Major constituents are inherently biodegradable, but contains components that may persist in the environment., Persistent per IMO criteria.,

Version 1.0	Revision Date 16.05.2024Print Date 17.05.2024International Oil Pollution Compensation (IOPC) Fund definition: "A non-persistent oil is oil, which, at the time of shipment, consists of hydrocarbon fractions, (a) at least 50% of which, by volume, distills at a temperature of 340°C (645°F) and (b) at least 95% of which, by volume, distils at a temperature of 370°C (700°F) when tested by the ASTM
	Method D-86/78 or any subsequent revision thereof."
Bioaccumulative potential	
Product:	
Bioaccumulation	: Remarks: Contains components with the potential to bioaccumulate.
Partition coefficient: n- octanol/water	<ul> <li>log Pow: &gt; 6Remarks: (based on information on similar products)</li> </ul>
Mobility in soil	
Product:	
Mobility	<ul> <li>Remarks: Liquid under most environmental conditions., If it enters soil, it will adsorb to soil particles and will not be mobile.</li> <li>Remarks: Floats on water.</li> </ul>
Other adverse effects	
no data available <u>Product:</u>	
Additional ecological information	<ul> <li>Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential., Product is a mixture of non-volatile components, which will not be released to air in any significant quantities under normal conditions of use.</li> <li>Poorly soluble mixture., Causes physical fouling of aquatic organisms.</li> </ul>

### **13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Waste from residues	<ul> <li>Recover or recycle if possible.</li> <li>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.</li> <li>Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Do not dispose into the environment, in drains or in water courses.</li> <li>Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.</li> <li>Waste arising from a spillage or tank cleaning should be</li> </ul>
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	disposed of in accordance with propreferably to a recognised collector competence of the collector or cor established beforehand.	or or contractor. The
	MARPOL - see International Conv Pollution from Ships (MARPOL 73 technical aspects at controlling po	8/78) which provides
Contaminated packaging	: Dispose in accordance with preva to a recognized collector or contra the collector or contractor should b Disposal should be in accordance national, and local laws and regula	ctor. The competence of be established beforehand. with applicable regional,
Local legislation Remarks	: Disposal should be in accordance national, and local laws and regula	

#### **14. TRANSPORT INFORMATION**

#### **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

#### Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.

#### Special precautions for user

Remarks

: Special Precautions: Refer to Section 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**

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

#### **Local Regulations**

Workplace Safety and Health Act & Workplace	This product is not subject to the requirements
Safety and Health (General Provision)	in the Act/Regulations.

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Regulations			
Fire Safety Act and Fire Safe	ety (Petroleum &	This product is not	t subject to the requirements
Flammable Materials) Regula	ations	in the Act/Regulat	ions.
Maritime and Port Authority of	of Singapore	This product is not	t subject to the requirements
(Dangerous Goods, Petroleu	m and Explosives)	in the Act/Regulat	ions.
Regulations			
Environmental Protection and	d Management Act	This product is no	t subject to control under this
and Environmental Protection	n and	Act/ Regulation.	
Management (Hazardous Su	bstances)		
Regulations			
The regulatory information is	not intended to be c	omprehensive. Oth	er regulations may apply to
this material.			

#### Other international regulations

#### The components of this product are reported in the following inventories:

EINECS TSCA : All components listed or polymer exempt.: All components listed.

#### **16. OTHER INFORMATION**

#### Abbreviations and Acronyms

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; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System: GLP - Good Laboratory Practice: IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC -New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC)

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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; TECI - Thailand Existing Chemicals Inventory; 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, insoperators.	struction and training for		
Other information	: A vertical bar ( ) in the left margin from the previous version.	indicates an amendment		
Sources of key data used to compile the Safety Data Sheet	: The quoted data are from, but no sources of information (e.g. toxice Health Services, material supplie	ological data from Shell		

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.

IUCLID date base, EC 1272 regulation, etc).

SG / EN