

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

LSB-3.5MSDS-SO-32-01

Revision Date: 09/23/2020 SDS Number: 800010042426 Date of last issue: 09/10/2020 Version 1.1

SECTION 1. IDENTIFICATION

: SO-32 Product name

Product code : SO-32

Manufacturer or supplier's details

Manufacturer/Supplier	LONE STAR BLOWER AND COMPRESSOR 8883 West Monroe Road Houston, Texas 7706					
	832-532-3112 • www.LoneStarTurbo.com					
SDS Request Customer Service	: (+1) 832-532-3112					
Emergency telephone nu Spill Information Health Information	Imber : 877-504-9351 : 877-242-7400					

Recommended use of the chemical and restrictions on use Recommended use

: Centrifugal Blowers & Compressors

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accore 1910.1200)	dar	ce with the OSHA Hazard Communication Standard (29 CFR
Skin sensitisation	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: H317 May cause an allergic skin reaction. ENVIRONMENTAL HAZARDS: H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention:



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P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water and soap. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

Storage:

No precautionary phrases.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label: Contains alkaryl phosphite

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.

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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	Synonyms	CAS-No.	Concentration (% w/w)
Alkaryl phosphite	tris(nonylpheny I) phosphite	26523-78-4	0.1 - 0.9

SECTION 4. FIRST-AID MEASURES

If inhaled	No treatment necessary under normal conditions If symptoms persist, obtain medical advice.	of use.
In case of skin contact	Remove contaminated clothing. Immediately flus large amounts of water for at least 15 minutes, an washing with soap and water if available. If reduce pain and/or blisters occur, transport to the nearest facility for additional treatment.	nd follow by ess, swelling,
In case of eye contact	Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do rinsing. If persistent irritation occurs, obtain medical atten	

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lf	swallowed	:	In general no treatment is necessar are swallowed, however, get medic	
a	lost important symptoms nd effects, both acute and elayed	:	Skin sensitisation (allergic skin read may include itching and/or a rash. Oil acne/folliculitis signs and sympton of black pustules and exets on the	oms 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.
Indication of any immediate medical attention and special	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

treatment needed

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	:	Local authorities should be advised if significant spillages cannot be contained.

	LO	N		R
	BLO	~	ER AND COMPRESSOR	<u> </u>
-	ATA SHEET			LSB-3.5MSDS-SO-32-01
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	ethods and materials for ontainment and cleaning up	:	Slippery when spilt. Avoid accider Prevent from spreading by making or other containment material. Reclaim liquid directly or in an abs Soak up residue with an absorben suitable material and dispose of pr	g a barrier with sand, earth sorbent. It such as clay, sand or other
A	dditional advice	:	For guidance on selection of perso see Section 8 of this Safety Data 8 For guidance on disposal of spilled this Safety Data Sheet.	Sheet.
SECTI	ON 7. HANDLING AND STO	R/	AGE	
Т	echnical measures	:	Use local exhaust ventilation if the vapours, mists or aerosols. Use the information in this data sh sessment of local circumstances to ate controls for safe handling, stor material.	eet as input to a risk as- o help determine appropri-
A	dvice on safe handling	:	Avoid prolonged or repeated conta Avoid inhaling vapour and/or mists When handling product in drums, s worn and proper handling equipme Properly dispose of any contamina rials in order to prevent fires.	s. safety footwear should be ent should be used.
A	voidance of contact	:	Strong oxidising agents.	
P	roduct Transfer	:	Proper grounding and bonding pro during all bulk transfer operations	
	urther information on stor- ge stability	:	Keep container tightly closed and place. Use properly labeled and closable	
			Store at ambient temperature.	
Pa	ackaging material	:	Suitable material: For containers of steel or high density polyethylene. Unsuitable material: PVC.	
С	ontainer Advice	:	Polyethylene containers should no peratures because of possible risk	

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis



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		(Form of exposure)	ters / Permissible concentration	
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
Oil mist, mineral		TWA (Inhal-	5 mg/m3	ACGIH
		able particu-	_	
		late matter)		

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 mainte-



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		nance. 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- taminated clothing and footwear that cannot be cleaned. Practice good housekeeping.
Personal protective equipme	ent	
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.
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. Application 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	:	Wear full face shield if splashes are likely to occur.
Skin and body protection	:	Wear chemical resistant gloves/gauntlets and boots. Where risk of splashing, also wear an apron.
Protective measures	:	Personal protective equipment (PPE) should meet recom- mended national standards. Check with PPE suppliers.
Thermal hazards	:	Not applicable



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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 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	blue
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	Method: Unspecified Not applicable
Initial boiling point and boiling range	:	> 280 °C / 536 °F estimated value(s)
Flash point	:	254 °C / 489 °F
		Method: ASTM D92 (COC)
Evaporation rate	:	Data not available
Flammability (solid, gas)	:	Data not available
Upper explosion limit / upper flammability limit	:	Typical 10 %(V)
Lower explosion limit / Lower flammability limit	:	Typical 1 %(V)
Vapour pressure	:	< 0.5 Pa (20 °C / 68 °F)
		estimated value(s)
Relative vapour density	:	> 1 estimated value(s)
Relative density	:	0.840 (15 °C / 59 °F)
Density	:	840 kg/m3 (15.0 °C / 59.0 °F) Method: ASTM D4052



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:	negligible
:	Data not available
:	log Pow: > 6 (based on information on similar products)
:	> 320 °C / 608 °F
:	Data not available
:	Data not available
:	32 mm2/s (40.0 °C / 104.0 °F)
	Method: ASTM D445
:	Not classified
:	Data not available
:	This material 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.

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).

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: Low toxicity: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: Remarks: Based on available data, the classification criteria are not met.
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.

Respiratory or skin sensitisation

Product:

Remarks: Expected to be a skin sensitizer.

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.

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



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Version 1.1 Revision Date: 09/23/2020 SDS Number: 800010042426 Date of last issue: 09/10/2020 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: 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 as far as possible.

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-
	tive of the product as a whole, rather than for individual com-



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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 10-100 mg/l Harmful
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	:	Remarks: LL/EL/IL50 10-100 mg/l Harmful
Toxicity to algae (Acute tox- icity)	:	Remarks: LL/EL/IL50 10-100 mg/l Harmful
Toxicity to fish (Chronic tox- icity)	:	Remarks: Data not available
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Data not available
Toxicity to microorganisms (Acute toxicity)	:	Remarks: Data not available
Components:		

Alkaryl phosphite:

M-Factor (Acute aquatic tox- : 1 icity)

M-Factor (Chronic aquatic : 1 toxicity)

Persistence and degradability

Product:

Biodegradability	:	Remarks: Not readily biodegradable. Major constituents are inherently biodegradable, but contains components that may persist in the environment.
Bioaccumulative potential		
Product:		

Bioaccumulation	:	Remarks: Contains components with the potential to bioac-
		cumulate.



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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.



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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 dangerou

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 Section 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

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

*: 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 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Respiratory or skin sensitisation
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.

US State Regulations

Pennsylvania Right To Know

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- 72623-87-1



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based Diphenylamine distillates (petroleum), hydrotreated light

122-39-4 64742-47-8

California Prop. 65

WARNING: This product can expose you to chemicals including distillates (petroleum), hydrotreated light, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

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Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- 72623-87-1 based

Other regulations:

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

EINECS	:	Not established.
TSCA	:	All components listed.
DSL	:	All components listed.

SECTION 16. OTHER INFORMATION

Further information

NFPA Rating (Health, Fire, Reac- 2, 1, 0 tivity)

Full text of other abbreviations

ACGIH OSHA Z-1		USA. ACGIH Threshold Limit Values (TLV) USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA OSHA Z-1 / TWA Abbreviations and Acronyms	:	8-hour, time-weighted average 8-hour time weighted average The standard abbreviations and acronyms used in this docu-
		ment 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

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COC = Cleveland Open-Cup DIN = Deutsches Institut fur Norm DMEL = Derived Minimal Effect Le DNEL = Derived No Effect Level	0
DIN = Deutsches Institut fur Norm DMEL = Derived Minimal Effect Le	0
DMEL = Derived Minimal Effect Le	0
DNEL - Derived Ne Effect Level	evel
DNEL = Derived no Eriect Lever	
DSL = Canada Domestic Substan	ce List
EC = European Commission	
EC50 = Effective Concentration fif	
ECETOC = European Center on E	cotoxicology and Toxicolo-
gy Of Chemicals	
	y of Existing Commercial
	ew Chemical Substances
EWC = Éuropean Waste Code	
GHS = Globally Harmonised Syste	em of Classification and
Labelling of Chemicals	
	ι y
	ngorous Goods
LC50 = Lethal Concentration fifty	2
LD50 = Lethal Dose fifty per cent.	
	e Loading/Inhibitory loading
	on for the Prevention of
	at Concentration (No Ob
	ct Concentration / No Ob-
	e - High Production Volume
Substances	
PNEC = Predicted No Effect Conc	entration
	And Authorisation Of
	rnational Carriage of Dan-
	ioaccumulative
	GHS = Globally Harmonised Syste Labelling of Chemicals IARC = International Agency for R IATA = International Air Transport IC50 = Inhibitory Concentration fift IL50 = Inhibitory Level fifty IMDG = International Maritime Dat INV = Chinese Chemicals Invento IP346 = Institute of Petroleum test determination of polycyclic aromat KECI = Korea Existing Chemicals LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/IL = Lethal Loading/Effective LL50 = Lethal Loading fifty MARPOL = International Conventi Pollution From Ships NOEC/NOEL = No Observed Effect served Effect Level OE_HPV = Occupational Exposure PBT = Persistent, Bioaccumulative PICCS = Philippine Inventory of C

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

Sources of key data used to : The quoted data are from, but not limited to, one or more



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compile the Safety Data Sheet	sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).
	IUCLID date base, EC 1272 regulation, etc).

Revision Date :

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.

US / EN