According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

ersion 3.0	Revision Date: 05/13/2015	Print Date: 05/21/207
ECTION 1. IDENTIFICATIO	N	
Product name	: ShellZone Multi-Vehicle Antifree	ze/Coolant
Product code	: 228C8524	
Manufacturer or supplie	er's details	
Manufacturer/Supplier	: Shell Oil Products US P.O. Box 4427 Houston TX 77210-4427 USA	
SDS Request Customer Service	: (+1) 877-276-7285 :	
Emergency telephone n	umber	
Spill Information Health Information	: 877-504-9351 : 877-242-7400	
Recommended use of t	he chemical and restrictions on use	
Recommended use	: Antifreeze and coolant.	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification	
Acute toxicity (Oral)	: Category 4
Specific target organ toxicity - repeated exposure	: Category 2 (Kidney)
GHS Label element	
Hazard pictograms	
Signal word	: Warning
Hazard statements	 PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: H302 Harmful if swallowed. H373 May cause damage to organs through prolonged or repeated exposure if swallowed. ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria.
Precautionary statements	 Prevention: P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. Response: P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor
15	800001033650

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	if you feel unwell.	
	P330 Rinse mouth.	
	Storage:	
	No precautionary phrases.	
	Disposal:	
	P501 Dispose of contents/ conta	ainer to an approved waste dis-
	posal plant.	
Hazardous component	s which must be listed on the label:	

Hazardous components which must be listed on the label: Contains Ethylene Glycol, CAS# 107-21-1. Contains ethanediol. Contains bittering agent.

Other hazards which do not result in classification

Intentional abuse, misuse or other massive exposure may cause multiple organ damage and or death.

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Mixture of ethylene glycol, water and additives.

Hazardous components

Chemical Name	Synonyms	CAS-No.	Concentration (%)
Ethanediol	ethane-1,2-diol	107-21-1	90 - 100
diethylene glycol	2,2'-oxydiethanol	111-46-6	1 - 5
Sodium benzoate		532-32-1	1 - 3

SECTION 4. FIRST-AID MEASURES

If inhaled: Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.In case of skin contact: Remove contaminated clothing. Flush exposed area with water 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. If persistent irritation occurs, obtain medical attention.In case of eye contact: Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.If swallowed: DO NOT DELAY. If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.Most important symptoms and effects, both acute and: Kidney toxicity may be recognized by blood in the urine or increased or decreased urine flow. Other signs and symptoms	General advice	: DO NOT DELAY. Keep victim calm. Obtain medical treatment immediately.
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. If persistent irritation occurs, obtain medical attention.If swallowed: DO NOT DELAY. If swallowed, do not induce vomiting: transport to nearest 	If inhaled	
If persistent irritation occurs, obtain medical attention. If swallowed : DO NOT DELAY. If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Most important symptoms : Kidney toxicity may be recognized by blood in the urine or	In case of skin contact	ter and follow by washing with soap if available.
If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.Most important symptoms: Kidney toxicity may be recognized by blood in the urine or	In case of eye contact	
	If swallowed	If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs
delayed can include nausea, vomiting, abdominal cramps, diarrhoea,	and effects, both acute and	increased or decreased urine flow. Other signs and symptoms

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	lumbar pain shortly after ingestic death. High concentrations may cause pression resulting in headaches tinued inhalation may result in u	central nervous system de- , dizziness and nausea; con-
Protection of first-aiders	: When administering first aid, en- appropriate personal protective incident, injury and surroundings	equipment according to the
Immediate medical attention, special treatment	: IMMEDIATE TREATMENT IS E The preferred treatment is immerical facility and use of appropriat administration of activated charce gastric aspiration. If none of the able and a delay of more than of such medical attention can be of may be appropriate using IPEC/ there are any signs of CNS deprisidered on a case by case basis Specific other treatments may in pizole, treatment of acidosis and ist advice without delay.	ediate transportation to a med- te treatment including possible coal, gastric lavage and or above are immediately avail- ne hour is anticipated before btained, induction of vomiting AC syrup (Contraindicated if ression). This should be con- to following specialist advice. aclude ethanol therapy, fome-

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon dio- xide, 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 me- thods	:	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-	:	Avoid contact with skin and eyes.
tive equipment and emer-		
gency procedures		

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		· · · · · · · · · · · · · · · · · · ·		
- · · · ·				
Environmental precautions	nation. Prevent from spreading	Use appropriate containment to avoid environmental contam nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.		
	Local authorities should be advi cannot be contained.	sed if significant spillages		
Methods and materials for containment and cleaning up	: For large liquid spills (> 1 drum) means such as vacuum truck to safe disposal. Do not flush away as contaminated waste. Allow re up with an appropriate absorber safely. Remove contaminated s	a salvage tank for recovery y residues with water. Retai esidues to evaporate or soa nt material and dispose of		
	For small liquid spills (< 1 drum) means to a labeled, sealable co safe disposal. Allow residues to appropriate absorbent material contaminated soil and dispose o	entainer for product recovery evaporate or soak up with and dispose of safely Remo		
Additional advice	: For guidance on selection of pe see Chapter 8 of this Safety Dat For guidance on disposal of spil this Safety Data Sheet.	ta Sheet.		
	Local authorities should be advi cannot be contained.	sed if significant spillages		
	U.S. regulations may require rep al to the environment which exc (refer to Chapter 15) to the Nat (800) 424-8802.	eed the reportable quantity		

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.

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Storage		
Other data	: Keep container tightly closed ar place. Use properly labeled and closal Store at ambient temperature.	
Packaging material	: Suitable material: For container steel or high density polyethyler Unsuitable material: Zinc., Avoir terials.	ne.
Container Advice	: Polyethylene containers should peratures because of possible r	

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
Ethanediol	107-21-1	C (Aerosol only)	100 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:

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	Define procedures for safe handl controls. Educate and train workers in the ures relevant to normal activities Ensure appropriate selection, tes equipment used to control expose equipment, local exhaust ventilat Drain down system prior to equip ance. Retain drain downs in sealed sto subsequent recycle. Always observe good personal hy washing hands after handling the drinking, and/or smoking. Routin protective equipment to remove of taminated clothing and footwear Practice good housekeeping.	hazards and control meas- associated with this product. sting and maintenance of ure, e.g. personal protective ion. oment break-in or mainten- rage pending disposal or ygiene measures, such as a material and before eating, hely wash work clothing and contaminants. Discard con-
Personal protective equipme	nt	
Respiratory protection	 No respiratory protection is ordinations of use. In accordance with good industriations should be taken to avoid bruil fengineering controls do not mattions to a level which is adequate select respiratory protection equination of use and meeting Check with respiratory protective Where air-filtering respirators are priate combination of mask and filter suitable for the com and vapours [Type A/Type P boil 	al hygiene practices, precau- eathing of material. intain airborne concentra- to protect worker health, pment suitable for the spe- ng relevant legislation. equipment suppliers. e suitable, select an appro- ilter. nbination of organic gases
Hand protection Remarks	: Where hand contact with the pro- gloves approved to relevant stan- US: F739) made from the followin suitable chemical protection. PVC gloves Suitability and durability o usage, e.g. frequency and duratic sistance of glove material, dexter glove suppliers. Contaminated gl Personal hygiene is a key elemen Gloves must only be worn on clea gloves, hands should be washed cation of a non-perfumed moistur For continuous contact we recom through time of more than 240 m 480 minutes where suitable gloves short-term/splash protection we r recognize that suitable gloves off may not be available and in this o time maybe acceptable so long a and replacement regimes are foll a good predictor of glove resistar	dards (e.g. Europe: EN374, ng materials may provide C, neoprene or nitrile rubber of a glove is dependent on on of contact, chemical re- rity. Always seek advice from loves should be replaced. Int of effective hand care. an hands. After using and dried thoroughly. Appli- rizer is recommended. Inmend gloves with break- inutes with preference for > es can be identified. For recommend the same, but fering this level of protection case a lower breakthrough as appropriate maintenance lowed. Glove thickness is not

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	dependent on the exact compos Glove thickness should be typica depending on the glove make ar	ally greater than 0.35 mm	
Eye protection	: If material is handled such that it protective eyewear is recommen		
Skin and body protection	 Skin protection is not ordinarily r work clothes. It is good practice to wear chemi 		
Protective measures	: Personal protective equipment (I mended national standards. Che		
Environmental exposure controls			
General advice	 Take appropriate measures to furvant environmental protection leg of the environment by following a necessary, prevent undissolved charged to waste water. Waste water municipal or industrial waste wate discharge to surface water. Local guidelines on emission lim must be observed for the dischar vapour. 	gislation. Avoid contamination advice given in Chapter 6. If material from being dis- water should be treated in a ter treatment plant before its for volatile substances	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid at room temperature.
Colour	:	yellow
Odour	:	characteristic
Odour Threshold	:	Data not available
рН	:	8.3
Melting point/freezing point	:	-36.7 °C / -34.1 °F (50.0 hPa) Method: ASTM D1177
Initial boiling point and boiling range	:	> 100 °C / 212 °Festimated value(s)
		>= 173 °C / >= 343 °FMethod: ASTM D1120
Flash point	:	130 °C / 266 °F Method: ASTM D92
Evaporation rate	:	Data not available
Flammability (solid, gas)	:	Data not available
Upper explosion limit	:	Typical 15 %(V)

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Lower explosion limit	: Typical 3 %(V)	
Vapour pressure	: Data not available	
Relative vapour density	: Data not available	
Relative density	: 1.1216 (15.6 °C / 60.1 °F)	
Density	: 1.1216 kg/m3 (15.6 °C / 60.1 °F) Method: Unspecified	
Solubility(ies) Water solubility	: completely soluble	
Solubility in other solvents	: Data not available	
Partition coefficient: n- octanol/water	: Data not available	
Auto-ignition temperature	: > 200 °C / 392 °F	
Viscosity Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 30 mm2/s (40.0 °C / 104.0 °F) Method: Unspecified	
Conductivity	: This material is not expected to be a	a static accumulator.
Decomposition temperature	: Data not available	

SECTION 10. STABILITY AND REACTIVITY

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
		information given le babba on data on the compensitio and

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	the toxicology of similar product the data presented is represent whole, rather than for individuation	tative of the product as a
Information on likely route Skin and eye contact are the accidental ingestion.	es of exposure e primary routes of exposure although	n exposure may occur following
Acute toxicity		
Product: Acute oral toxicity	: LD50 (rat): > 500 - 2,000 mg/kg Remarks: Harmful if swallowed	
	Remarks: There is a marked di between rodents and man, ma rodents. The estimated fatal d (1/2 cup). This material has als potentially lethal by ingestion to Ingestion may cause drowsine	n being more susceptible than ose for man is 100 milliliters to been shown to be toxic and to cats and dogs.
Acute inhalation toxicity	: LC 50 (Rat): > 5 mg/l Exposure time: 4 h Remarks: Low toxicity:	
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Low toxicity:	
Skin corrosion/irritation		
Product: Remarks: Expected to be sli	ghtly irritating.	
Serious eye damage/eye ir	ritation	
Product:		

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.

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n 3.0 ARC CGIH	Revision Date: 05/13/2015 No component of this product pres equal to 0.1% is identified as prob human carcinogen by IARC. No component of this product pres equal to 0.1% is identified as a car	
	equal to 0.1% is identified as prob human carcinogen by IARC. No component of this product pres equal to 0.1% is identified as a car	
	equal to 0.1% is identified as prob human carcinogen by IARC. No component of this product pres equal to 0.1% is identified as a car	
CGIH	equal to 0.1% is identified as a car	
	gen by ACGIH.	
SHA	No component of this product pres equal to 0.1% is identified as a car gen by OSHA.	
ТР	No component of this product pres equal to 0.1% is identified as a kno by NTP.	
	: Remarks: Not expected to impa a developmental toxicant.	ir fertility., Not expected to be
		ar fertility., Not expected to be
FOT - single exposure		
• <mark>oduct:</mark> emarks: Not expected to be a	a hazard.	
ΓΟT - repeated exposure		
r <mark>oduct:</mark> emarks: Kidney: can cause k	idney damage.	
spiration toxicity		
<u>oduct:</u>		
ot considered an aspiration h	nazard.	
urther information		
oduct:		

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-

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		tive of the product as a whole, rathe ponent(s).	r than for individual cor
Ecotoxicity			
Product:			
Toxicity to fish (Acute toxic- ity)	:	Remarks: Expected to be practically LC/EC/IC50 > 100 mg/l	/ non toxic:
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	:	Remarks: Expected to be practically LC/EC/IC50 > 100 mg/l	/ non toxic:
Toxicity to algae (Acute toxic- ity)	:	Remarks: Expected to be practically LC/EC/IC50 > 100 mg/l	v non toxic:
Toxicity to fish (Chronic toxic- ity)	:	Remarks: Data not available	
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Data not available	
Toxicity to bacteria (Acute toxicity)	:	Remarks: Data not available	
Persistence and degradabilit	ły		
Product:			
Biodegradability	:	Remarks: Readily biodegradable.	
Bioaccumulative potential			
•			
Product:	:	Remarks: Not expected to bioaccun	nulate significantly.
Product: Bioaccumulation	:	Remarks: Not expected to bioaccun	nulate significantly.
Product: Bioaccumulation Mobility in soil	:	Remarks: Not expected to bioaccun	nulate significantly.
Bioaccumulative potential <u>Product:</u> Bioaccumulation Mobility in soil <u>Product:</u> Mobility		Remarks: Not expected to bioaccun Remarks: Liquid under most enviror If product enters soil, it will be highly minate groundwater. Dissolves in water.	nmental conditions.
Product: Bioaccumulation Mobility in soil Product:		Remarks: Liquid under most enviror If product enters soil, it will be highly minate groundwater.	nmental conditions.
Product: Bioaccumulation Mobility in soil Product: Mobility Other adverse effects		Remarks: Liquid under most enviror If product enters soil, it will be highly minate groundwater.	nmental conditions.

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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 me- thods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses
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

	rtation Classification (49 CFR Parts 171-180)	
UN/ID/NA number	: UN 3082	
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethylene glycol)	
Class	: 9	
Packing group	: III	
Labels	: 9	
Reportable quantity	Ethylene glycol	
	(5,000 lb)	
Marine pollutant	: no	
Remarks	 This material is not regulated under 49 CFR if in a container o 119 gallon capacity or less. 	f

International Regulation

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

Pollution category	: Not applicable
Ship type	: Not applicable
Product name	: Not applicable

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Special precautions	: Not applicable	
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.	
Additional Information	: MARPOL Annex 1 rules apply fo	r bulk shipments by sea.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Toxic by ingestion

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Ethylene Glycol	107-21-1	5000	5000

CERCLA Reportable Quantity

Calculated RQ exceeds reasonably attainable upper limit.

CERCLA Reportable Quantity

Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

CERCLA Reportable Quantity

The components with RQs are given for information.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards	: 4	Acute Health Hazard		
SARA 302		No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.		orting
SARA 313		: The following components are subject to reporting levels es tablished by SARA Title III, Section 313:		levels es-
	E	Ethanediol	107-21-1	100 %

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				
Ethanediol	107-21-1			
diethylene glycol	111-46-6			
New Jersey Right To Know				
Ethanediol	107-21-1			

California Prop 65

This product does not contain any chemicals known to State

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of California to cause cancer, birth defects, or any other re- productive harm.			
The components of this product are reported in the following inventories:			
EINECS	: All components listed or polymer e	xempt.	
TSCA	: All components listed.		
DSL	: All components listed.		

SECTION 16. OTHER INFORMATION

Further information

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

Due to the conversion of this product to GHS classification and labelling, there has been a significant change to the nature of the information presented in chapter 2. 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 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

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

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	IATA = International Air Transp IC50 = Inhibitory Concentration IL50 = Inhibitory Level fifty IMDG = International Maritime INV = Chinese Chemicals Invei IP346 = Institute of Petroleum determination of polycyclic aron KECI = Korea Existing Chemica LC50 = Lethal Concentration fit LD50 = Lethal Concentration fit LD50 = Lethal Loading/Effect LL/EL/IL = Lethal Loading/Effect LL50 = Lethal Loading fifty MARPOL = International Conver Pollution From Ships NOEC/NOEL = No Observed E served Effect Level OE_HPV = Occupational Export PBT = Persistent, Bioaccumula PICCS = Philippine Inventory of Substances PNEC = Predicted No Effect Con REACH = Registration Evaluat Chemicals RID = Regulations Relating to I gerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure lin TRA = Targeted Risk Assessm TSCA = US Toxic Substances TWA = Time-Weighted Averag vPvB = very Persistent and ver	bort Association n fifty Dangerous Goods ntory test method N° 346 for the matics DMSO-extractables als Inventory fty ent. ctive Loading/Inhibitory loading ention for the Prevention of Effect Concentration / No Ob- sure - High Production Volume ative and Toxic of Chemicals and Chemical oncentration ion And Authorisation Of International Carriage of Dan- mit nent Control Act
Revision Date	: 05/13/2015	,

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.