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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : AE-2A

Product code : V2426, V2557

CAS-No. : 68439-50-9

Manufacturer or supplier's details

Supplier :

SHELL EASTERN CHEMICALS (S)

A REGISTERED BUSINESS OF SHELL EASTERN

TRADING (PTE) LTD (UEN:198902087C)

9 North Buona Vista Drive, #07-01

The Metropolis Tower 1 Singapore 138588

Singapore 138588 Singapore

Telephone : +65 6384 8269 Telefax : +65 6384 8454

Contact for Safety Data

Emergency telephone

Sheet

number

: +800 2537 8747 (ALERT SGS- toll Free) or +65 6542 9595

(ALERT SGS)

2. HAZARDS IDENTIFICATION

GHS Classification

Short-term (acute) aquatic : Category 1

hazard

Long-term (chronic) aquatic : Category 2

hazard

GHS label elements

Hazard pictograms :



Signal word : Warning

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: H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements

Prevention:

P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Storage:

No precautionary phrases.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

3.1 Substances

Components

Chemical name	CAS-No.	Classification	Concentration (%
			w/w)
C12-14 Alcohol ethoxylate	68439-50-9	Aquatic Acute1; H400 Aquatic Chronic2; H411	100

For explanation of abbreviations see section 16.

4. FIRST-AID MEASURES

General advice : Not expected to be a health hazard when used under normal

conditions.

If inhaled : No treatment necessary under normal conditions of use.

If symptoms persist, obtain medical advice.

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In case of skin contact	: Remove contaminated clothing. Flush water and follow by washing with soap If persistent irritation occurs, obtain me	if available.
In case of eye contact	: Flush eye with copious quantities of ware Remove contact lenses, if present and rinsing. If persistent irritation occurs, obtain me	l easy to do. Continue
If swallowed	: In general no treatment is necessary users swallowed, however, get medical a	.
Most important symptoms and effects, both acute and delayed	 Not considered to be an inhalation haze conditions of use. Possible respiratory irritation signs and a temporary burning sensation of the recoughing, and/or difficulty breathing. 	d symptoms may include
	No specific hazards under normal use Skin irritation signs and symptoms ma sensation, redness, or swelling.	
	No specific hazards under normal use Eye irritation signs and symptoms may sensation, redness, swelling, and/or bl	y include a burning
	No specific hazards under normal use Ingestion may result in nausea, vomition	
	Defatting dermatitis signs and symptor burning sensation and/or a dried/crack	
Protection of first-aiders	: When administering first aid, ensure the appropriate personal protective equipment incident, injury and surroundings.	
Notes to physician	: Call a doctor or poison control center f Treat symptomatically.	or guidance.
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media	: Alcohol-resistant foam, water spray or powder, carbon dioxide, sand or earth fires only.	
Unsuitable extinguishing media	: None	

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Specific hazards during : Carbon monoxide may be evolved if incomplete combustion occurs.

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Specific extinguishing

methods

Standard procedure for chemical fires.

Clear fire area of all non-emergency personnel. Keep adjacent containers cool by spraying with water.

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).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Observe all relevant local and international regulations. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

Local authorities should be advised if significant spillages

cannot be contained.

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet. For guidance on disposal of spilled material see

Section 13 of this Safety Data Sheet. Stay upwind and keep out of low areas. Be ready for fire or possible exposure.

Environmental precautions

: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Use appropriate containment to avoid environmental

contamination.

Ventilate contaminated area thoroughly.

Methods and materials for containment and cleaning up : For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove

contaminated soil and dispose of safely.

Additional advice : For guidance on selection of personal protective equipment

see Section 8 of this Safety Data Sheet.

For guidance on disposal of spilled material see Section 13 of

this Safety Data Sheet.

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7. HANDLING AND STORAGE		
General Precautions	: Avoid breathing of or direct conta well ventilated areas. Wash thoro guidance on selection of persona Section 8 of this Safety Data She Use the information in this data s assessment of local circumstanc appropriate controls for safe han this material. Ensure that all local regulations r storage facilities are followed.	oughly after handling. For all protective equipment see eet. sheet as input to a risk es to help determine dling, storage and disposal of
Advice on safe handling	: Avoid contact with skin, eyes and Do not empty into drains.	d clothing.
Avoidance of contact	Copper.Copper alloys.Strong oxidising agents.Aluminum	
Product Transfer	: Keep containers closed when no under Handling section.	t in use. Refer to guidance
Storage		
Conditions for safe storage	: Refer to section 15 for any additi covering the packaging and stora	
Other data	: Tanks should be fitted with heating ambient temperatures are below handling temperatures. Heating on not exceed 100 °C. Bulk storage tanks should be dik Vapours from tanks should not b Breathing losses during storage suitable vapour treatment system Nitrogen blanket recommended fm3 or higher). Insulation (lagging) will minimize ambient temperature. Tanks should be fitted with heating ambient conditions can result in the freezing point/pour point of the	the recommended product coil skin temperatures should ed (bunded). e released to atmosphere. should be controlled by a n. for large tanks (capacity 100 heat loss in areas of low and coils in areas where handling temperatures below
Packaging material	: Suitable material: Stainless steel Unsuitable material: Aluminum, 0	
Container Advice	: Containers, even those that have explosive vapours. Do not cut, do similar operations on or near con	rill, grind, weld or perform
Specific use(s)	: Not applicable	
	Ensure that all local regulations r	egarding handling and

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storage facilities are followed.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

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

: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated. Eye washes and showers for emergency use.

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:

General Information:

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

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

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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.

Personal protective equipment

Protective measures

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

Respiratory protection

: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where air-filtering respirators are suitable, select an

appropriate combination of mask and filter.

If air-filtering respirators are suitable for conditions of use: Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point >65°C

(149°F)].

Hand protection Remarks

: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. When prolonged or frequent repeated contact occurs. Nitrile rubber gloves. Incidental contact/Splash protection: PVC or neoprene rubber gloves. For continuous contact we recommend gloves with breakthrough 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. 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

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moisturizer is recommended.

Eye protection : If material is handled such that it could be splashed into eyes,

protective eyewear is recommended.

Skin and body protection : Skin protection is not ordinarily required beyond standard

work clothes.

It is good practice to wear chemical resistant gloves.

Thermal hazards : Not applicable

Hygiene measures : Wash hands before eating, drinking, smoking and using the

toilet.

Launder contaminated clothing before re-use.

Environmental exposure controls

General advice : Local guidelines on emission limits for volatile substances

must be observed for the discharge of exhaust air containing

vapour.

Minimise release to the environment. An environmental assessment must be made to ensure compliance with local

environmental legislation.

Information on accidental release measures are to be found in

section 6.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear to slightly hazy liquid.

Colour : Colourless to yellowish

Odour : Data not available
Odour Threshold : Data not available

pH : 6 - 7.5

Melting point/freezing point : Data not available

: 250 °C / 482 °F

Flash point : $> 148.9 \, ^{\circ}\text{C} / > 300.0 \, ^{\circ}\text{F}$

Evaporation rate : Data not available
Upper explosion limit : Data not available
Lower explosion limit : Data not available

Vapour pressure : Data not available Data not available

Relative vapour density : no data available
Relative density : no data available

Density : 0.96 g/cm3 (50 °C / 122 °F)

Method: ASTM D4052

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Solubility(ies)

Water solubility : practically insoluble Solubility in other solvents : Data not available

Viscosity, kinematic : Data not available

Particle characteristics

10. STABILITY AND REACTIVITY

Reactivity : Stable at normal ambient temperature and pressure., May

oxidise in the presence of air.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: None known.

Conditions to avoid : Extremes of temperature and direct sunlight.

Product cannot ignite due to static electricity.

Incompatible materials : Copper.

Copper alloys.

Strong oxidising agents.

Aluminum

Hazardous decomposition

products

: None expected under normal use conditions.

11. TOXICOLOGICAL INFORMATION

Basis for assessment : Information given is based on product testing, and/or similar

products, and/or components.

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

Exposure may occur via inhalation, ingestion, skin absorption,

skin or eye contact, and accidental ingestion.

Acute toxicity

Components:

C12-14 Alcohol ethoxylate:

Acute oral toxicity : LD50 Rat: > 5000 mg/kg

Remarks: Low toxicity

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

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: Remarks: Not expected to be a hazard. Acute inhalation toxicity

Acute dermal toxicity : LD50 : > 5000 mg/kg

Remarks: Low toxicity

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

Skin corrosion/irritation

Components:

C12-14 Alcohol ethoxylate:

Remarks: Not irritating to skin.

Serious eye damage/eye irritation

Components:

C12-14 Alcohol ethoxylate:

Remarks: Not irritating to eye.

Respiratory or skin sensitisation

Components:

C12-14 Alcohol ethoxylate:

Remarks: Not a sensitiser.

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

Germ cell mutagenicity

Components:

C12-14 Alcohol ethoxylate:

Genotoxicity in vitro : Remarks: Non mutagenic

: Remarks: Non mutagenic

Carcinogenicity

Components:

C12-14 Alcohol ethoxylate:

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Material	GHS/CLP Carcinogenicity Classification
C12-14 Alcohol ethoxylate	No carcinogenicity classification.

Reproductive toxicity

Components:

C12-14 Alcohol ethoxylate:

Remarks: Does not impair fertility., Not a developmental

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toxicant.

STOT - single exposure

Components:

C12-14 Alcohol ethoxylate:

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

STOT - repeated exposure

Components:

C12-14 Alcohol ethoxylate:

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

Aspiration toxicity

Components:

C12-14 Alcohol ethoxylate:

Not an aspiration hazard.

Further information

Components:

C12-14 Alcohol ethoxylate:

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

12. ECOLOGICAL INFORMATION

Basis for assessment : Incomplete ecotoxicological data are available for this product.

The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for

individual component(s).

Ecotoxicity

Components:

C12-14 Alcohol ethoxylate:

Toxicity to fish (Acute : Remarks: Very toxic.

toxicity) LC/EC/IC50 < 1 mg/l

Data estimated using read-across from similar substances

Toxicity to crustacean (Acute : Remarks: Very toxic.

toxicity) LC/EC/IC50 < 1 mg/l

Data estimated using read-across from similar substances

Toxicity to algae/aquatic : Remarks: Very toxic.

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plants (Acute toxicity) LC/EC/IC50 < 1 mg/l

Data estimated using read-across from similar substances

M-Factor (Short-term (acute)

aquatic hazard)

: 10

Toxicity to microorganisms

(Acute toxicity)

Remarks: LL/EL/IL50 > 100 mg/l

Practically non toxic:

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

Toxicity to fish (Chronic

toxicity)

: Remarks: NOEC/NOEL expected to be > 0.1 - <= 1.0 mg/l Data estimated using read-across from similar substances

Toxicity to

crustacean(Chronic toxicity)

: Remarks: NOEC/NOEL expected to be > 0.01 - <= 0.1 mg/l Data estimated using read-across from similar substances

Persistence and degradability

Components:

C12-14 Alcohol ethoxylate:

Biodegradability : Remarks: Readily biodegradable.

Bioaccumulative potential

Components:

C12-14 Alcohol ethoxylate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely to occur due to

metabolism and excretion.

Mobility in soil

Components:

C12-14 Alcohol ethoxylate:

Mobility

: Remarks: Floats on water., If the product enters soil, one or more constituents will or may be mobile and may contaminate

groundwater.

Other adverse effects

no data available

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 methods 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

water.

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Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

Local regulations may be more stringent than regional or

national requirements and must be complied with.

Contaminated packaging : Drain container thoroughly.

After draining, vent in a safe place away from sparks and fire.

Residues may cause an explosion hazard. Do not puncture, cut, or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

14. TRANSPORT INFORMATION

International Regulations

ADR

UN number : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Alcohol C12-C16 Poly (1-6) Ethoxylate)

Class : 9
Packing group : III
Labels : 9
Hazard Identification Number : 90
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Alcohol C12-C16 Poly (1-6) Ethoxylate)

Class : 9
Packing group : III
Labels : 9

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Alcohol C12-C16 Poly (1-6) Ethoxylate)

Class : 9
Packing group : III
Labels : 9
Marine pollutant : no

Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.

Special precautions for user

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Not applicable

15. REGULATORY INFORMATION

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

Local Regulations

Workplace Safety and Health Act & Workplace Safety and Health (General Provision) Regulations	This product is subject to the SDS, Labelling, PEL and other requirements in the Act/ Regulations.
Fire Safety Act and Fire Safety (Petroleum & Flammable Materials) Regulations	This product is not subject to control under this Act/ Regulation.
Maritime and Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives) Regulations	This product is subject to the SDS, Labelling, PEL and other requirements in the Act/ Regulations.
	-
Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations	This product is not subject to the requirements in the Act/Regulations.

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

16. OTHER INFORMATION

Full text of H-Statements

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute Short-term (acute) aquatic hazard Aquatic Chronic Long-term (chronic) aquatic hazard

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

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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) 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, instruction and training for

operators.

Other information : A vertical bar (|) in the left margin indicates an amendment

from the previous version.

Sources of key data used to compile the Safety Data

Sheet

: The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU

IUCLID date base, EC 1272 regulation, etc).

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.

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