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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name : C Monopropylene glycol - USP

Product code : U1538

CAS-No. : 57-55-6

Other means of identification : Propane-1,2-diol

1.2 Identified relevant uses of the substance or mixture and restrictions on use

Recommended use of the chemical and restrictions on use

Recommended use : Generally accepted for use in food, animal feed, flavours and

cosmetics and as an excipient (inactive carrier) for pharmaceuticals. Restrictions or limitations set by local

regulations have to be followed.

Restrictions on use : This product must not be used in applications other than the

above without first seeking the advice of the supplier.

Do not use in theatrical fogs or other artificial smoke generator applications., Monopropylene Glycol USP is not an approved additive to cat foodstuff acc. to 91/336/EEC and 21CFR §

582.1666.

1.3 Details of the supplier of the safety data sheet

Manufacturer or supplier's details

Manufacturer/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

Telephone : +971 4 405 4400 Telefax : +971 4 329 3311

1.4 Emergency telephone number

Emergency telephone

: + (65) 6542 9595 (Alert-SGS)

number

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Based on available data this substance / mixture does not meet the classification criteria.

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2.2 Label elements

Hazard pictograms : No Hazard Symbol required

Signal word : No signal word

Hazard statements : PHYSICAL HAZARDS:

Not classified as a physical hazard according to CLP criteria.

HEALTH HAZARDS:

Not classified as a health hazard under CLP criteria.

ENVIRONMENTAL HAZARDS:

Not classified as environmental hazard according to CLP

criteria.

Precautionary statements : **Prevention**:

No precautionary phrases.

Response:

No precautionary phrases.

Storage:

No precautionary phrases.

Disposal:

No precautionary phrases.

2.3 Other hazards

Not classified as flammable but will burn.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

3.1 Substances

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
Monopropylene glycol	57-55-6		<= 100

4. FIRST-AID MEASURES

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4.1 Description of 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.

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.

Remove contact lenses, if present and easy to do. Continue

rinsing.

If persistent irritation occurs, obtain medical attention.

If swallowed : In general no treatment is necessary unless large quantities

are swallowed, however, get medical advice.

4.2 Protection of first-aiders

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.

4.3 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed

: Not considered to be an inhalation hazard under normal

conditions of use.

Possible respiratory irritation signs and symptoms may include

a temporary burning sensation of the nose and throat,

coughing, and/or difficulty breathing.

No specific hazards under normal use conditions.

Skin irritation signs and symptoms may include a burning

sensation, redness, or swelling.

No specific hazards under normal use conditions.

Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.

No specific hazards under normal use conditions.

Ingestion may result in nausea, vomiting and/or diarrhoea.

Notes to physician : Call a doctor or poison control center for guidance.

Treat symptomatically. Following cases of gross overexposure, investigation of liver, kidney and eye function may be advisable. Records of such incidents should be maintained

for future reference.

5. FIRE-FIGHTING MEASURES

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5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant 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.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Material will not burn unless preheated.

Carbon monoxide may be evolved if incomplete combustion

occurs.

Containers exposed to intense heat from fires should be

cooled with large quantities of water.

5.3 Recomendations for fire-fighters

Specific extinguishing

methods

: Standard procedure for chemical fires.

Evacuate the area of all non-essential 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

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

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 skin, eyes and clothing.

6.2 Environmental precautions

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.

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6.3 Methods and material for containment and cleaning up

Methods and materials for containment and cleaning up : Contain run-off from residue flush and dispose of properly. Soak up residue with an absorbent such as clav, sand or other suitable material.

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.

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

6.4 Reference to other sections

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.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

General Precautions : Avoid breathing of or direct contact with material. Only use in

> well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see

Section 8 of this Safety Data Sheet.

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.

Ensure that all local regulations regarding handling and

storage facilities are followed.

Advice on safe handling Use local exhaust extraction over processing area.

Handle and open container with care in a well-ventilated area.

Do not empty into drains.

When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

Handling Temperature:

Ambient.

Avoidance of contact : Strong oxidising agents.

> Strong acids. Strong bases.

Product Transfer : Keep containers closed when not in use. Do not pressurize

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drum containers to empty.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for safe storage : Refer to section 15 for any additional specific legislation

covering the packaging and storage of this product.

Storage temperature : <= 40 °C

Other data : Tanks must be clean, dry and rust-free.

Keep container tightly closed.

Must be stored in a diked (bunded) well- ventilated area, away from sunlight, ignition sources and other sources of heat. Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of

strict procedures and precautions.

Drums should be stacked to a maximum of 3 high.

Storage Temperature:

Ambient.

Protect from frost, heat and sunlight.

Packaging material : Suitable material: Stainless steel., Mild steel., Carbon steel

Unsuitable material: Data not available

Container Advice : Containers, even those that have been emptied, can contain

explosive vapours. Do not cut, drill, grind, weld or perform

similar operations on or near containers.

7.3 Specific end use(s)

Specific use(s) : Generally accepted for use in food, animal feed, flavours and

cosmetics and as an excipient (inactive carrier) for pharmaceuticals. Restrictions or limitations set by local

regulations have to be followed.

Uses advised against : This product must not be used in applications other than the

above without first seeking the advice of the supplier.

Do not use in theatrical fogs or other artificial smoke generator applications. Monopropylene Glycol USP is not an approved additive to cat foodstuff acc. to 91/336/EEC and 21CFR §

582.1666.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Biological occupational exposure limits

No biological limit allocated.

8.2 Exposure controls

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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. Eye washes and showers for emergency use.

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 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.

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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. Longer term protection: 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 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

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.

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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

9.1 Information on basic physical and chemical properties

Appearance : Liquid.

Colour : colourless
Odour : odourless

Odour Threshold : Data not available

pH : 7

Melting / freezing point : -59 °C / -74 °F

Boiling point/boiling range : 186 - 189 °C / 367 - 372 °F

Flash point : 99 °C / 210 °F

Method: ASTM D-93 / PMCC

Evaporation rate : Data not available

Flammability (solid, gas) : Not applicable

Upper explosion limit : 12,6 %(V)

Lower explosion limit : 2,6 %(V)

Vapour pressure : ca. 7 Pa (20 °C / 68 °F)

Relative vapour density : 2,5 (20 °C / 68 °F)

Relative density : 1,04 (3,89 $^{\circ}$ C / 39,00 $^{\circ}$ F)

Method: ASTM D4052

Density : 1.036 kg/m3 (20 °C / 68 °F)

Method: ASTM D4052

Solubility(ies)

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Water solubility : completely soluble

Partition coefficient: n-

octanol/water

: log Pow: ca. -1

Auto-ignition temperature : 421 °C / 790 °F

Decomposition temperature : Data not available

Viscosity

Viscosity, dynamic : 55 mPa.s (20 °C / 68 °F)

Method: ASTM D445

Viscosity, kinematic : Data not available
Particle size : Data not available

9.2 Other information

Explosive properties : Not applicable
Oxidizing properties : Not applicable

Surface tension : 71,6 mN/m, 21,5 °C / 70,7 °F

Conductivity: > 10,000 pS/m

A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid, This material is not expected to be

a static accumulator.

Molecular weight : 76,1 g/mol

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

10.2 Chemical stability

No hazardous reaction is expected when handled and stored according to provisions Oxidises on contact with air.

10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

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10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

Product cannot ignite due to static electricity.

10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.

Strong acids. Strong bases.

10.6 Hazardous decomposition products

: Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Acute toxicity

Components:

Monopropylene glycol:

Acute oral toxicity : LD 50 Rat, male and female: 22.000 mg/kg

Method: Literature data

Remarks: Based on available data, the classification criteria

are not met.

Acute inhalation toxicity : LC50 Rabbit: > 317 mg/l

Exposure time: 2 h
Test atmosphere: Aerosol
Method: Literature data

Remarks: Based on available data, the classification criteria

are not met.

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Acute dermal toxicity : LD 50 Rabbit: > 2.000 mg/kg

Method: Acceptable non-standard method.

Remarks: Based on available data, the classification criteria

are not met.

Skin corrosion/irritation

Components:

Monopropylene glycol:

Species: Rabbit

Method: OECD Test Guideline 404

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

Serious eye damage/eye irritation

Components:

Monopropylene glycol:

Species: Rabbit

Method: OECD Test Guideline 405

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

Respiratory or skin sensitisation

Components:

Monopropylene glycol:

Species: Mouse

Method: Test(s) equivalent or similar to OECD Test Guideline 429 Remarks: Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Components:

Monopropylene glycol:

Method: Literature data

Remarks: Based on available data, the classification criteria

are not met.

Method: OECD Test Guideline 473

Remarks: Based on available data, the classification criteria

are not met.

Test species: RatMethod: Literature data

Remarks: Based on available data, the classification criteria

are not met.

Test species: MouseMethod: Literature data

Remarks: Based on available data, the classification criteria

are not met.

Carcinogenicity

Components:

Monopropylene glycol:

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Species: Rat, (male and female)

Application Route: Oral Method: Literature data

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

Material	GHS/CLP Carcinogenicity Classification
Monopropylene glycol	No carcinogenicity classification.

Reproductive toxicity

Components:

Monopropylene glycol:

Species: Mouse Sex: male and female Application Route: Oral

Method: Literature data

Remarks: Based on available data, the classification criteria

are not met.

Effects on foetal development

Species: Mouse, female Application Route: Oral

Method: Test(s) equivalent or similar to OECD Test Guideline

414

Remarks: Based on available data, the classification criteria

are not met.

STOT - single exposure

Components:

Monopropylene glycol:

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

STOT - repeated exposure

Components:

Monopropylene glycol:

Remarks: Based on available data, the classification criteria are not met., Cats given high doses of MPG in diet showed a decrease in red blood cell survival.

Repeated dose toxicity

Components:

Monopropylene glycol:

Rat, male and female: Application Route: Oral Method: Literature data

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Target Organs: No specific target organs noted

Rat, male and female: Application Route: Inhalation Test atmosphere: Aerosol Method: Literature data

Target Organs: No specific target organs noted

Mouse, female:

Application Route: Dermal Method: Literature data

Target Organs: No specific target organs noted

Aspiration toxicity

11.2 Information on other hazards

Components:

Monopropylene glycol:

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

Further information

Components:

Monopropylene glycol:

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

12. ECOLOGICAL INFORMATION

Basis for assessment : Information given is based on product testing.

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

individual component(s).

12.1 Toxicity

Components:

Monopropylene glycol:

Toxicity to fish (Acute toxicity)

: LC50 (Oncorhynchus mykiss (rainbow trout)): 40.613 mg/l

Exposure time: 96 h

Method: Test(s) equivalent or similar to OECD Guideline 203

Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to crustacean (Acute

toxicity)

: LC50 (Ceriodaphnia dubia (water flea)): 18.340 mg/l

Exposure time: 48 h

Method: Test(s) equivalent or similar to OECD Guideline 202

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Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to algae/aquatic

plants (Acute toxicity)

: EC50 (Pseudokirchneriella subcapitata (algae)): 19.000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201 Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to microorganisms

(Acute toxicity)

: EC50 (Pseudomonas putida): > 100 mg/l

Method: Test(s) equivalent or similar to OECD Guideline 209

Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to fish (Chronic

toxicity)

: Chronic Toxicity Value: 2.500 mg/l

Exposure time: 30 d

Method: Based on quantitative structure-activity relationship

(QSAR) modelling

Remarks: NOEC/NOEL > 100 mg/l

Toxicity to

crustacean(Chronic toxicity)

: NOEC: 29.000 mg/l Exposure time: 7 d

Species: Ceriodaphnia dubia (Water flea)

Method: Test(s) equivalent or similar to OECD Guideline 211

Remarks: NOEC/NOEL > 100 mg/l

12.2 Persistence and degradability

Components:

Monopropylene glycol:

Biodegradability : Biodegradation: 97 %

Exposure time: 28 d

Method: OECD Test Guideline 301F Remarks: Readily biodegradable.

12.3 Bioaccumulative potential

Product:

Partition coefficient: n-

: log Pow: ca. -1

octanol/water Components:

Monopropylene glycol:

Bioaccumulation : Bioconcentration factor (BCF): 0,09

Method: Based on quantitative structure-activity relationship

(QSAR) modelling

Remarks: Does not bioaccumulate significantly.

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12.4 Mobility in soil

Components:

Monopropylene glycol:

Mobility

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

12.5 Other adverse effects

Components:

Monopropylene glycol:

Endocrine disrupting

potential

: Substance does not have endocrine disrupting properties.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment 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. Remove all packaging for recovery or waste disposal. Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.

Do not dispose into the environment, in drains or in water courses.

Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations. preferably to a recognised 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 regulations may be more stringent than regional or national requirements and must be complied with.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides

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technical aspects at controlling pollutions from ships.

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.

14. TRANSPORT INFORMATION

14.1 UN number or ID number

ADR : Not regulated as a dangerous good **IMDG** : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR Not regulated as a dangerous good **IMDG** Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR Not regulated as a dangerous good **IMDG** Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good **IMDG** Not regulated as a dangerous good

14.5 Environmental hazards

ADR Not regulated as a dangerous good **IMDG** Not regulated as a dangerous good

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

: OS Pollution category

Ship type : IBC Chapter 18 cargo, must be double hulled

Product name : Propylene glycol

Additional Information : This product may be transported under nitrogen blanketing.

Nitrogen is an odourless and invisible gas. Exposure to nitrogen enriched atmospheres displaces available oxygen which may cause asphyxiation or death. Personnel must observe strict safety precautions when involved with a

confined space entry. Transport in bulk according to Annex II

of Marpol and the IBC Code

17 / 19 800010066544 PK

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15. REGULATORY INFORMATION

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

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

Other international regulations

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

DSL : Listed **IECSC** Listed **ENCS** : Listed KECI : Listed NZIoC : Listed **PICCS** : Listed **TSCA** : Listed TCSI : Listed

16. OTHER INFORMATION

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this

document can be looked up in reference literature (e.g.

scientific dictionaries) and/or websites.

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).

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.