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SECTION 1. IDENTIFICATION

Product name : B NEODOL 135-3

Product code : V2759

CAS-No. : 68002-97-1

Manufacturer or supplier's details

Company : Shell Chemical LP

PO Box 576

HOUSTON TX 77001

USA

SDS Request : 1-800-240-6737

Customer Service : 1-855-697-4355

Emergency telephone number

Chemtrec Domestic (24 hr) : 1-800-424-9300

Chemtrec International (24

hr)

: 1-703-527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Use in detergent and intermediate manufacture

Restrictions on use

This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the sup-

plier.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Eye irritation : Category 2B

Short-term (acute) aquatic

hazard

Category 1

Long-term (chronic) aquatic

quatic : Category 2

hazard

GHS label elements

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Hazard pictograms

*

Signal word : Warning

Hazard statements : PHYSICAL HAZARDS:

Not classified as a physical hazard under GHS criteria.

HEALTH HAZARDS: H320 Causes eye irritation. ENVIRONMENTAL HAZARDS: H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P264 Wash hands thoroughly after handling. P273 Avoid release to the environment.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.

P391 Collect spillage.

Storage:

No precautionary phrases.

Disposal:

P501 Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regula-

tions.

Other hazards which do not result in classification

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Alcohols, C10-16,	Alcohols, C10-	68002-97-1	<= 100
ethoxylated	16, ethoxylated		
Ethylene Oxide	ethylene oxide (Vapour and	75-21-8	<= 6 PPM
	gas)		

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SECTION 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.

In case of skin contact Remove contaminated clothing. Flush exposed area with wa-

> ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.

In case of eye contact Immediately flush eye(s) with plenty of water.

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

rinsing.

Transport to the nearest medical facility for additional treat-

ment.

If swallowed In general no treatment is necessary unless large quantities

are swallowed, however, get medical advice.

Most important symptoms and effects, both acute and

delayed

Not considered to be an inhalation hazard under normal con-

ditions of use.

Possible respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, cough-

ing, and/or difficulty breathing.

No specific hazards under normal use conditions.

Skin irritation signs and symptoms may include a burning sen-

sation, redness, or swelling.

Eye irritation signs and symptoms may include a burning sen-

sation, redness, swelling, and/or blurred vision. No specific hazards under normal use conditions.

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

When administering first aid, ensure that you are wearing the Protection of first-aiders

appropriate personal protective equipment according to the

incident, injury and surroundings.

Indication of any immediate medical attention and special

treatment needed

Treat symptomatically.

IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT!

Call a doctor or poison control center for guidance.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam, water spray or fog. Dry chemical pow-

der, carbon dioxide, sand or earth may be used for small fires

only.

Unsuitable extinguishing

media

Do not use water in a jet.

Specific hazards during fire-Carbon monoxide may be evolved if incomplete combustion

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fighting occurs.

Will float and can be reignited on surface water.

The vapour is heavier than air, spreads along the ground and

distant ignition is possible.

Specific extinguishing meth-

ods

Standard procedure for chemical fires.

Further information 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).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec: : tive 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 riv-

ers by using sand, earth, or other appropriate barriers.

Use appropriate containment to avoid environmental contami-

nation.

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.

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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.

U.S. regulations may require reporting releases of this material to the environment which exceed the reportable quantity (refer to Section 15) to the National Response Center at (800)

424-8802.

SECTION 7. HANDLING AND STORAGE

Technical measures : 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 stor-

age facilities are followed.

Advice on safe handling : Avoid contact with skin, eyes and clothing.

Do not empty into drains.

Sudden Release of Pressure Hazard

Avoidance of contact : Copper.

Copper alloys.

Strong oxidising agents.

Aluminum

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

pressed air for filling discharge or handling.

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

ering the packaging and storage of this product.

Further information on stor-

age stability

Bulk storage tanks should be diked (bunded).

Vapours from tanks should not be released to atmosphere. Breathing losses during storage should be controlled by a

suitable vapour treatment system.

Nitrogen blanket recommended for large tanks (capacity 100

m3 or higher).

Insulation (lagging) will minimize heat loss in areas of low

ambient temperature.

Tanks should be fitted with heating coils in areas where ambient conditions can result in handling temperatures below the

freezing point/pour point of the product.

Packaging material : Suitable material: Stainless steel., Epoxy resins, Polyester.

Unsuitable material: Aluminum, Copper., Copper alloys.

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

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

similar operations on or near containers.

Specific use(s) : Not applicable

Ensure that all local regulations regarding handling and stor-

age facilities are followed.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethylene Oxide	75-21-8	TWA	1 ppm 1.8 mg/m3	Shell Internal Standard (SIS) for 8 hour TWA.
Ethylene Oxide		TWA	1 ppm	ACGIH
Ethylene Oxide		PEL	1 ppm	OSHA CARC
Ethylene Oxide		STEL	5 ppm	OSHA CARC

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentration	Basis
Ethylene Oxide	75-21-8	N-(2- hydroxyeth- yl)valine (HEV) he- moglobin adducts		Not criti- cal	5000 pmol HEV/g glo- bin	ACGIH BEI
		S-(2- hydroxyeth- yl)mercaptu ric acid (HEMA)	Urine	End of shift	5 μg HEMA/g creatinine	ACGIH BEI

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/

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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.isp

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

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)].

Respirator selection, use and maintenance should be in ac-

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cordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

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

work clothes.

It is good practice to wear chemical resistant gloves.

Protective measures : Personal protective equipment (PPE) should meet recom-

mended national standards. Check with PPE suppliers.

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 envi-

ronmental legislation.

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Information on accidental release measures are to be found in section 6.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : colourless

Odour : mild

Odour Threshold : Data not available

pH : Data not available

pour point : 5 °C / 41 °F

: Data not available

Flash point : 154 °C / 309 °F

Evaporation rate : Data not available

Flammability

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit / up- : Data not available

per flammability limit

: Data not available

Lower explosion limit / Lower flammability limit

Vapour pressure : ca. 0.1 hPa (37.8 °C / 100.0 °F)

Relative vapour density : ca. 9

Relative density : 0.91

Density : 0.908 g/cm3 (40 °C / 104 °F)

Solubility(ies)

Water solubility : 0.05 g/l negligible

Solubility in other solvents : Data not available

Partition coefficient: n-

octanol/water

Data not available

Auto-ignition temperature : Data not available

Decomposition temperature : Data not available

Viscosity

Viscosity, dynamic : 35 mPa.s (20 °C / 68 °F)

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Viscosity, kinematic : 38 mm2/s (20 °C / 68 °F)

Explosive properties : no data available

Oxidizing properties : Data not available

Surface tension : Data not available

Conductivity : A number of factors, for example liquid temperature, presence

of contaminants, and anti-static additives can greatly influence the conductivity of a liquid, Electrical conductivity: > 10,000 pS/m, This material is not expected to be a static accumulator.

Molecular weight : 326 - 338 g/mol

Particle size : Data not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable at normal ambient temperature and pressure.

May oxidise in the presence of air.

Chemical stability : The product is chemically stable.

Stable under normal conditions.

Possibility of hazardous reac-

tions

: None known.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Copper.

Copper alloys.

Strong oxidising agents.

Aluminum

Hazardous decomposition

products

None expected under normal use conditions.

SECTION 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 com-

ponent(s).

Information on likely routes of exposure

Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

Acute toxicity

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Components:

Ethylene Oxide:

Acute oral toxicity : LD 50 (Rat, male): > 50 - <= 300 mg/kg

Method: Literature data Remarks: Toxic if swallowed.

Acute inhalation toxicity : LC 50 (Rat, male): > 500 - <= 2500 ppm

Exposure time: 4 h
Test atmosphere: gas
Method: Literature data
Remarks: Toxic if inhaled.

High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria

are not met.

Skin corrosion/irritation

Components:

Ethylene Oxide: Species: Rabbit

Method: Acceptable non-standard method.

Remarks: Causes severe skin burns and eye damage., Liquid solutions of ethylene oxide cause serious chemical burns of the skin and eye lesions. The severity of injury will vary depending on the concentration and duration of skin contact., Rapid release of gases which are liquids under pressure may cause frost burns of exposed tissues (skin, eye) due to evaporative cooling.

Serious eye damage/eye irritation

Components:

Ethylene Oxide: Species: Rabbit

Method: Literature data

Remarks: Causes serious eye damage.

Respiratory or skin sensitisation

Components:

Ethylene Oxide:

Species: Guinea pig Method: Literature data

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

Germ cell mutagenicity

Components:

Ethylene Oxide:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Remarks: May cause genetic defects.

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: Method: Literature data

Remarks: May cause genetic defects.

Genotoxicity in vivo : Test species: Mouse

Application Route: Inhalation Method: Literature data

Remarks: May cause genetic defects.

Germ cell mutagenicity- As-

sessment

: May cause genetic defects.

Carcinogenicity

Components:

Ethylene Oxide:

Species: Rat, (male and female) Application Route: Inhalation Method: Literature data Remarks: May cause cancer.

Carcinogenicity - Assess-

ment

: May cause cancer.

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHANo 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

Components:

Ethylene Oxide:

Effects on fertility

Species: Rat

Sex: male and female Application Route: Inhalation

Method: Literature data

Remarks: Based on available data, the classification criteria

are not met.

May impair fertility based on animal studies.

Effects on foetal develop: Species: Rat, male and female

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ment Application Route: Inhalation

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

414

Remarks: May damage fertility or the unborn child., Causes

slight foetotoxicity.
Species: Rabbit, female
Application Route: Inhalation
Method: Literature data

Remarks: Based on available data, the classification criteria

are not met., Causes slight foetotoxicity.

Reproductive toxicity - As-

sessment

: This product does not meet the criteria for classification in

categories 1A/1B.

STOT - single exposure

Components:

Ethylene Oxide:

Exposure routes: Inhalation

Target Organs: Respiratory system

Remarks: May cause respiratory irritation., High concentrations may cause central nervous sys-

tem depression resulting in headaches, dizziness and nausea.

STOT - repeated exposure

Components:

Ethylene Oxide:

Exposure routes: Inhalation Target Organs: Nervous system

Remarks: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Ethylene Oxide:

Species: Rat, male and female Application Route: Inhalation Test atmosphere: vapour

Method: Test(s) equivalent or similar to OECD Test Guideline 453

Target Organs: Nervous system

Remarks: Causes damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Components:

Ethylene Oxide:

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

Further information

Components:

Ethylene Oxide:

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

SECTION 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 com-

ponent(s).

Ecotoxicity

Product:

Toxicity to fish (Acute toxici-

tul

Remarks: no data available

Toxicity to daphnia and other : aquatic invertebrates (Acute

toxicity)

EC50: 0.108 mg/l

Toxicity to algae (Acute tox-

icity)

EC50: 0.0929 mg/l

Toxicity to fish (Chronic tox-

icity)

Remarks: no data available

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

Remarks: no data available

Components:

Alcohols, C10-16, ethoxylated:

M-Factor (Acute aquatic tox- : 1

icity)

10

Ethylene Oxide:

Toxicity to fish (Acute toxici-

ty)

LC50 (Pimephales promelas (fathead minnow)): 84 mg/l

Exposure time: 96 h

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

Remarks: Harmful

LL/EL/IL50 >10 <= 100 mg/l

Toxicity to daphnia and other : aquatic invertebrates (Acute

toxicity)

LC50 (Daphnia magna (Water flea)): 137 - 300 mg/l

Exposure time: 48 h

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

Remarks: Practically non toxic:

LC/EC/IC50 > 100 mg/l

Toxicity to algae (Acute tox- : EC50 (Pseudokirchneriella subcapitata (algae)): 240 mg/l

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icity) Exposure time: 96 h

Method: Information given is based on data obtained from

similar substances.

Remarks: Practically non toxic:

LC/EC/IC50 > 100 mg/l

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)

EC50 (Activated sludge, domestic waste): > 713 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209 Remarks: Practically non toxic: LC/EC/IC50 > 100 mg/l

Persistence and degradability

Product:

Biodegradation: 82 - 86 %

Exposure time: 28 Days

Method: OECD Test Guideline 301F

Remarks: Considered readily biodegradable.

Readily biodegradable meeting the 10 day window criterion.

Components:

Ethylene Oxide:

Biodegradability : Biodegradation: 93 - 98 %

Exposure time: 28 d

Method: Information given is based on data obtained from

similar substances.

Remarks: Readily biodegradable. Rapidly hydrolyses in water and soil.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely to occur due to rapid

metabolism and high biodegradability in the aquatic environ-

ment.

Components:

Ethylene Oxide:

Bioaccumulation : Remarks: Does not have the potential to bioaccumulate signif-

icantly.

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Mobility in soil

Components:

Ethylene Oxide:

Mobility : Remarks: When released to air, transfers to soil or water by

wet and dry deposition.

Other adverse effects

Components:

Ethylene Oxide:

Results of PBT and vPvB

assessment

The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not consid-

ered to be PBT or vPvB.

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

water.

Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

Local regulations may be more stringent than regional or na-

tional 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.

SECTION 14. TRANSPORT INFORMATION

National Regulations

US Department of Transportation Classification (49 CFR Parts 171-180)

UN/ID/NA number : UN 3082

Proper shipping name : Environmentally hazardous substances, liquid, n.o.s.

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

Class : 9 Packing group : III

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Labels : 9 ERG Code : 171

Marine pollutant : yes (Alcohol C12-C16 Poly (1-6) Ethoxylate)

International Regulations

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substances, 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 : yes

Maritime transport in bulk according to IMO instruments

Pollution category : Y Ship type : 2

Product name : Alcohols (C11-15) Poly(3) Ethoxylates

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.

Additional Information : Transport in bulk according to Annex II of Marpol and the IBC

Code

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ	
		(lbs)	(lbs)	
Ethylene Oxide	75-21-8	10	*	

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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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 : Serious eye damage or eye irritation

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

California Prop. 65

WARNING: This product can expose you to chemicals including Ethylene Oxide, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Other regulations:

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

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

DSL : Listed

IECSC : Listed

KECI : Listed

TSCA : Listed

ENCS : Listed

NZIoC : Listed

TCSI : Listed

AIIC : Listed

PICCS : Listed

SECTION 16. OTHER INFORMATION

Further information

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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NFPA Rating (Health, Fire, Reac- 1, 1, 0

tivity)

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

OSHA CARC : OSHA Specifically Regulated Chemicals/Carcinogens

ACGIH / TWA : 8-hour, time-weighted average OSHA CARC / PEL : Permissible exposure limit (PEL)

OSHA CARC / STEL : Excursion limit

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

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 Toxicolo-

gy 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

IATA = International Air Transport Association

IC50 = Inhibitory Concentration fifty

IL50 = Inhibitory Level fifty

IMDG = International Maritime Dangerous Goods

INV = Chinese Chemicals Inventory

IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables

KECI = Korea Existing Chemicals Inventory

LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading

LL50 = Lethal Loading fifty

MARPOL = International Convention for the Prevention of

Pollution From Ships

NOEC/NOEL = No Observed Effect Concentration / No Ob-

served Effect Level

OE_HPV = Occupational Exposure - High Production Volume

PBT = Persistent, Bioaccumulative and Toxic

PICCS = Philippine Inventory of Chemicals and Chemical

Substances

PNEC = Predicted No Effect Concentration

REACH = Registration Evaluation And Authorisation Of

Chemicals

RID = Regulations Relating to International Carriage of Dan-

gerous Goods by Rail

SKIN_DES = Skin Designation

STEL = Short term exposure limit

TRA = Targeted Risk Assessment

TSCA = US Toxic Substances Control Act

TWA = Time-Weighted Average

vPvB = very Persistent and very Bioaccumulative

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).

Revision Date : 08/09/2024

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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