According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

# Rotella Fully Formulated AFC w/SCA 50/50

| Version | Revision Date: | SDS Number:  | Print Date: 04/29/2023         |
|---------|----------------|--------------|--------------------------------|
| 3.1     | 06/19/2020     | 800001029378 | Date of last issue: 08/23/2018 |

#### **SECTION 1. IDENTIFICATION**

Product name : Rotella Fully Formulated AFC w/SCA 50/50

Product code : 001E0223

#### Manufacturer or supplier's details

| Manufacturer/Supplier | : Shell Oil Products US<br>PO Box 4427<br>Houston TX 77210-4427<br>USA |
|-----------------------|--|
| SDS Request           | : (+1) 877-276-7285  |
| Customer Service      | :  |

#### Emergency telephone number

| Spill Information  | : | 877-242-7400 |
|--------------------|---|--------------|
| Health Information | : | 877-504-9351 |

#### Recommended use of the chemical and restrictions on use Recommended use : Antifreeze and coolant.

#### **SECTION 2. HAZARDS IDENTIFICATION**

| GHS classification in accord<br>Acute toxicity (Oral) |   | ce with 29 CFR 1910.1200<br>Category 4  |
|---|---|---|
| Specific target organ toxicity<br>- repeated exposure | : | Category 2 (Kidney)   |
| GHS label elements                                    |   |   |
| Hazard pictograms                                     | : |   |
| Signal word   | : | Warning   |
| Hazard statements                                     | : | PHYSICAL HAZARDS:<br>Not classified as a physical hazard under GHS criteria.<br>HEALTH HAZARDS:<br>H302 Harmful if swallowed.<br>H373 May cause damage to organs through prolonged or re-<br>peated exposure if swallowed.<br>ENVIRONMENTAL HAZARDS:<br>Not classified as an environmental hazard under GHS criteria. |

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Precautionary statements

### Prevention:

P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

#### Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 Rinse mouth.

#### Storage:

No precautionary phrases.

#### Disposal:

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

Hazardous components which must be listed on the label: Contains ethanediol. Contains bittering agent.

#### Other hazards which do not result in classification

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

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

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

:

| Substance / Mixture | : | Mixture |
|---------------------|---|---------|
|                     |   |         |

Chemical nature

#### Hazardous components

| Chemical name     | Synonyms              | CAS-No.  | Concentration (% w/w) |
|-------------------|-----------------------|----------|-----------------------|
| Diethylene glycol | 2,2'-<br>oxydiethanol | 111-46-6 | 1 - 3                 |
| Ethanediol        | ethane-1,2-diol       | 107-21-1 | 40 - 60               |

Mixture of ethylene glycol, water and additives.

#### **SECTION 4. FIRST-AID MEASURES**

| General advice          | : | DO NOT DELAY.<br>Keep victim calm. Obtain medical treatment immediately.  |
|-------------------------|---|---|
| If inhaled              | : | Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.  |
| In case of skin contact | : | Remove contaminated clothing. Flush exposed area with wa-<br>ter and follow by washing with soap if available.<br>If persistent irritation occurs, obtain medical attention.        |
| In case of eye contact  | : | Flush eye with copious quantities of water.<br>Remove contact lenses, if present and easy to do. Continue<br>rinsing.<br>If persistent irritation occurs, obtain medical attention. |

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| l            | If swall | owed   | : | medical facility for   | ot induce vomiting: transport to nearest<br>additional treatment. If vomiting occurs<br>eep head below hips to prevent aspiration.   |
| ;            |          | nportant symptoms<br>ects, both acute and<br>d               | : | increased or decre<br>can include nause<br>lumbar pain short<br>death.<br>High concentration<br>pression resulting   | ay be recognized by blood in the urine or<br>eased urine flow. Other signs and symptoms<br>ea, vomiting, abdominal cramps, diarrhoea,<br>y after ingestion, and possibly narcosis and<br>ns may cause central nervous system de-<br>in headaches, dizziness and nausea; con-<br>nay result in unconsciousness and/or death.  |
|              | Protect  | ion of first-aiders  | : |  | ng first aid, ensure that you are wearing the nal protective equipment according to the d surroundings.  |
| I            | medica   | on of any immediate<br>I attention and special<br>ent needed | : | The preferred treat<br>ical facility and us<br>administration of a<br>gastric aspiration.<br>able and a delay of<br>such medical atter<br>may be appropriat<br>there are any sign<br>sidered on a case<br>Specific other treat | ATMENT IS EXTREMELY IMPORTANT!<br>atment is immediate transportation to a med-<br>e of appropriate treatment including possible<br>activated charcoal, gastric lavage and or<br>If none of the above are immediately avail-<br>of more than one hour is anticipated before<br>ntion can be obtained, induction of vomiting<br>te using IPECAC syrup (Contraindicated if<br>as of CNS depression). This should be con-<br>by case basis following specialist advice.<br>atments may include ethanol therapy, fomep-<br>acidosis and haemodialysis. Seek specialist<br>ay. |

#### SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media                  | : | Foam, water spray or fog. Dry chemical powder, carbon diox-<br>ide, sand or earth may be used for small fires only.  |
|---|---|--|
| Unsuitable extinguishing media                | : | Do not use water in a jet.   |
| Specific hazards during fire-<br>fighting     | : | Hazardous combustion products may include:<br>A complex mixture of airborne solid and liquid particulates and<br>gases (smoke).<br>Carbon monoxide may be evolved if incomplete combustion<br>occurs.<br>Unidentified organic and inorganic compounds. |
| Specific extinguishing meth-<br>ods           | : | Use extinguishing measures that are appropriate to local cir-<br>cumstances and the surrounding environment.   |
| Special protective equipment for firefighters | : | Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if  |

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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-<br>tive equipment and emer-<br>gency procedures | : | Avoid contact with skin and eyes.  |
|---|---|--|
| Environmental precautions   | : | Local authorities should be advised if significant spillages cannot be contained.  |
| Methods and materials for containment and cleaning up                         | : | For large liquid spills (> 1 drum), transfer by mechanical<br>means such as vacuum truck to a salvage tank for recovery or<br>safe disposal. Do not flush away residues with water. Retain<br>as contaminated waste. Allow residues to evaporate or soak<br>up with an appropriate absorbent material and dispose of<br>safely. Remove contaminated soil and dispose of safely |
|   |   | For small liquid spills (< 1 drum), transfer by mechanical<br>means to a labeled, sealable container for product recovery or<br>safe disposal. Allow residues to evaporate or soak up with an<br>appropriate absorbent material and dispose of safely. Remove<br>contaminated soil and dispose of safely.  |
| Additional advice   | : | For guidance on selection of personal protective equipment<br>see Section 8 of this Safety Data Sheet.<br>For guidance on disposal of spilled material see Section 13 of<br>this Safety Data Sheet.  |
|   |   | Local authorities should be advised if significant spillages cannot be contained.  |
|   |   | U.S. regulations may require reporting releases of this materi-<br>al to the environment which exceed the reportable quantity<br>(refer to Section 15) to the National Response Center at (800)<br>424-8802.   |

#### SECTION 7. HANDLING AND STORAGE

| Technical measures      | : | Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.<br>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. |
|-------------------------|---|---|
| Advice on safe handling | : | Avoid prolonged or repeated contact with skin.<br>Avoid inhaling vapour and/or mists.   |

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|                  |                                   |   | worn and proper l       | oduct in drums, safety footwear should be<br>nandling equipment should be used.<br>of any contaminated rags or cleaning mate-<br>event fires. |
| Avoida           | ance of contact                   | : | Strong oxidising a      | igents.   |
| Furthe<br>age st | r information on stor-<br>ability | : | place.                  | ghtly closed and in a cool, well-ventilated<br>led and closable containers.<br>temperature.   |
| Packa            | ging material                     | : | steel or high dens      | For containers or container linings, use mild<br>ity polyethylene.<br>al: Zinc., Avoid contact with galvanized ma-                            |
| Conta            | iner Advice                       | : |                         | ainers should not be exposed to high tem-<br>e of possible risk of distortion.  |

#### SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

| Components | CAS-No.  | Value type<br>(Form of<br>exposure)             | Control parame-<br>ters / Permissible<br>concentration | Basis |  |  |  |
|------------|----------|---|--|-------|--|--|--|
| Ethanediol | 107-21-1 | TWA (Va-<br>pour)                               | 25 ppm   | ACGIH |  |  |  |
| Ethanediol |          | STEL (Va-<br>pour)                              | 50 ppm   | ACGIH |  |  |  |
| Ethanediol |          | STEL (Inhal-<br>able fraction,<br>Aerosol only) | 10 mg/m3   | ACGIH |  |  |  |

#### 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/

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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.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<br>vary depending upon potential exposure conditions. Select<br>controls based on a risk assessment of local circumstances.<br>Appropriate measures include:<br>Adequate ventilation to control airborne concentrations.  |
|-------------------------------|--|
|                               | Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.  |
|                               | <ul> <li>General Information:</li> <li>Define procedures for safe handling and maintenance of controls.</li> <li>Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.</li> <li>Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.</li> <li>Drain down system prior to equipment break-in or maintenance.</li> <li>Retain drain downs in sealed storage pending disposal or subsequent recycle.</li> <li>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.</li> <li>Practice good housekeeping.</li> </ul> |
| Personal protective equipment | t  |
| Respiratory protection :      | No respiratory protection is ordinarily required under normal conditions of use.<br>In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material.  |

tions should be taken to avoid breathing of material. 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 suitable, select an appropriate combination of mask and filter. Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point >65°C (149°F)].

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| Hand protection            |  |
|----------------------------|--|
| Remarks :                  | Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with break-through time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model. |
| Eye protection :           | 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<br>work clothes.<br>It is good practice to wear chemical resistant gloves.  |
| Protective measures :      | Personal protective equipment (PPE) should meet recom-<br>mended national standards. Check with PPE suppliers.   |
| Thermal hazards            | : Not applicable   |
|                            |  |

### Environmental exposure controls

| General advice | <ul> <li>Local guidelines on emission limits for volatile substances<br/>must be observed for the discharge of exhaust air containing<br/>vapour.</li> <li>Minimise release to the environment. An environmental as-<br/>sessment must be made to ensure compliance with local envi-<br/>ronmental legislation.</li> <li>Information on accidental release measures are to be found in<br/>section 6.</li> </ul> |
|----------------|--|
|                |  |

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid

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|             | Odour              |  | : | characteristic                                    |  |
|             | Odour              | Threshold                                | : | Data not available                                | e  |
|             | рН                 |  | : | Not applicable                                    |  |
|             | Melting            | point/freezing point                     | : | -37 °C / -34 °F<br>(100.0 hPa)<br>Method: Unspeci | fied   |
|             | Initial b<br>range | oiling point and boiling                 | : | > 100 °C / 212 °F<br>estimated value(s            |  |
|             | Flash p            | point                                    | : | 142 °C / 288 °F                                   |  |
|             |                    |  |   | Method: ASTM D                                    | 992 (COC)  |
|             | Evapor             | ration rate                              | : | Data not available                                | e  |
|             | Flamm              | ability (solid, gas)                     | : | Data not available                                | e  |
|             |                    | explosion limit / upper<br>ability limit | : | Typical 15 %(V)                                   |  |
|             |                    | explosion limit / Lower<br>ability limit | : | Typical 3 %(V)                                    |  |
|             | Vapour             | rpressure                                | : | Data not available                                | e  |
|             | Relativ            | e vapour density                         | : | Data not available                                | e  |
|             | Relativ            | e density                                | : | 1.128 (15 °C / 59                                 | °F)  |
|             | Density            | /  | : | 1,128 kg/m3 (15.<br>Method: ASTM D                | ,  |
|             | Solubil<br>Wat     | ity(ies)<br>ter solubility               | : | completely solubl                                 | le   |
|             | Solu               | ubility in other solvents                | : | Data not available                                | e  |
|             | Partitio<br>octano | n coefficient: n-<br>I/water             | : | Data not available                                | e  |
|             | Auto-ig            | nition temperature                       | : | > 200 °C / 392 °F                                 | -  |
|             | Decom              | position temperature                     | : | Data not available                                | e  |
|             | Viscosi<br>Visc    | ity<br>cosity, dynamic                   | : | Data not available                                | e  |
|             | Viso               | cosity, kinematic                        | : | Data not available                                | e  |
|             | Explosi            | ive properties                           | : | Not classified                                    |  |

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| (            | Conduc            | ng properties<br>tivity<br>ar weight | :   | Data not availabl<br>This material is r<br>Not applicable | e<br>not expected to be a static accumulator.            |
| SECT         | TION 1            | ). STABILITY AND RE                  | EAC | ΤΙVITY  |  |
| (            | Chemic            | al stability                         | :   | Stable.   |  |
|              | Possibil<br>tions | ity of hazardous reac-               | :   | Reacts with stror   | ng oxidising agents.                                     |
| (            | Conditio          | ons to avoid                         | :   | Extremes of tem   | perature and direct sunlight.                            |

| Incompatible materials              | : | Strong oxidising agents.                            |
|-------------------------------------|---|---|
| Hazardous decomposition<br>products | : | No decomposition if stored and applied as directed. |

#### SECTION 11. TOXICOLOGICAL INFORMATION

| Basis for assessment | : Information given is based on data on the components and<br>the toxicology of similar products.Unless indicated otherwise,<br>the data presented is representative of the product as a<br>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

| Product:                  |  |             |
|---------------------------|--|-------------|
| Acute oral toxicity       | LD50 (rat): > 500 - 2,000 mg/kg<br>Remarks: Harmful if swallowed.  |             |
|                           | Remarks: There is a marked difference in acute oral tox<br>between rodents and man, man being more susceptible<br>rodents. The estimated fatal dose for man is 100 millilite<br>(1/2 cup). This material has also been shown to be toxic<br>potentially lethal by ingestion to cats and dogs.<br>Ingestion may cause drowsiness and dizziness. | than<br>ers |
| Acute inhalation toxicity | LC 50 (Rat): > 5 mg/l<br>Exposure time: 4 h<br>Remarks: Low toxicity:  |             |
| Acute dermal toxicity     | LD50 (Rabbit): > 5,000 mg/kg<br>Remarks: Low toxicity:   |             |

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#### Skin corrosion/irritation

#### Product:

Remarks: Slightly irritating to skin., Based on available data, the classification criteria are not met.

#### Serious eye damage/eye irritation

#### Product:

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation

#### Product:

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

#### Germ cell mutagenicity

#### Product:

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

#### Carcinogenicity

#### Product:

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

| IARC                  | Group 2A: Probably carcinogenic to humans   |           |  |
|-----------------------|---|-----------|--|
|                       | Sodium nitrate  | 7631-99-4 |  |
| OSHA                  | No component of this product present at levels greate<br>equal to 0.1% is on OSHA's list of regulated carcinog                          |           |  |
| NTP                   | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |           |  |
| Reproductive toxicity |   |           |  |
| Product:              |   |           |  |
|                       | :<br>Remarks: Not a developmental toxicant Does not   | impair    |  |

Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.

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#### STOT - single exposure

#### Product:

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

#### STOT - repeated exposure

#### Product:

Remarks: Kidney: can cause kidney damage.

#### Aspiration toxicity

#### Product:

Not an aspiration hazard.

#### Further information

#### Product:

Remarks: Slightly irritating to respiratory system.

Remarks: Inhalation of vapours or mists may cause irritation to the respiratory system.

#### SECTION 12. ECOLOGICAL INFORMATION

| Basis for assessment   | : | Ecotoxicological data have not been determined specifically<br>for this product.<br>Information given is based on a knowledge of the component<br>and the ecotoxicology of similar products.<br>Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual com-<br>ponent(s). |  |
|--|---|---|--|
| Ecotoxicity  |   |   |  |
| Product:<br>Toxicity to fish (Acute toxici-<br>ty)                   | : | Remarks: LC/EC/IC50 > 100 mg/l<br>Practically non toxic:<br>Based on available data, the classification criteria are not met.   |  |
| Toxicity to daphnia and other aquatic invertebrates (Acute toxicity) | : | Remarks: LC/EC/IC50 > 100 mg/l<br>Practically non toxic:<br>Based on available data, the classification criteria are not met.   |  |
| Toxicity to algae (Acute tox-<br>icity)                              | : | Remarks: LC/EC/IC50 > 100 mg/l<br>Practically non toxic:<br>Based on available data, the classification criteria are not met.   |  |
| Toxicity to fish (Chronic tox-<br>icity)                             | : | Remarks: Data not available   |  |

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| aqua           | icity to daphnia and other<br>atic invertebrates (Chron-<br>xicity) | :   | Remarks: Data n  | ot available   |  |
|                | icity to microorganisms<br>ute toxicity)                            | :   | Remarks: Data not available                                |  |  |
| Pers           | sistence and degradabili  | ity |  |  |  |
|                | <u>duct:</u><br>degradability                                       | :   | Remarks: Readil  | y biodegradable.   |  |
| Bioa           | accumulative potential  |     |  |  |  |
|                | <u>duct:</u><br>accumulation  | :   | Remarks: Does r  | ot bioaccumulate significantly.  |  |
| Mob            | pility in soil  |     |  |  |  |
| Pro            | duct:   |     |  |  |  |
| Mob            | ility   | :   | If product enters<br>inate groundwate<br>Dissolves in wate |  |  |
| Oth            | er adverse effects  |     |  |  |  |
| Pro            | duct:   |     |  |  |  |
| Add<br>mati    |   | :   |  | zone depletion potential, photochemical<br>otential or global warming potential. |  |
|                | N 13. DISPOSAL CONSIE   | DER | ATIONS   |  |  |

| Waste from residues    |   | Recover or recycle if possible.<br>It is the responsibility of the waste generator to determine the<br>toxicity and physical properties of the material generated to<br>determine the proper waste classification and disposal meth-<br>ods in compliance with applicable regulations.<br>Do not dispose into the environment, in drains or in water<br>courses |
|------------------------|---|---|
|                        |   | Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.<br>Waste, spills or used product is dangerous waste.   |
| Contaminated packaging | : | Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of  |

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|             |                | Disposal should | contractor should be established beforehand.<br>d be in accordance with applicable regional,<br>cal laws and regulations. |
| <b>Loca</b> | I legislation  | •               | d be in accordance with applicable regional,  |
| Rema        | arks           |                 | cal laws and regulations.   |

#### SECTION 14. TRANSPORT INFORMATION

#### **National Regulations**

| US Department of Transpo<br>UN/ID/NA number | tation Classification (49 CFR Parts 171-180)<br>: UN 3082                     |
|---|---|
| Proper shipping name                        | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Ethylene glycol) |
| Class                                       | : 9   |
| Packing group                               | : III   |
| Labels                                      | : 9   |
| Reportable quantity                         | Ethylene glycol   |
|   | (5,000 lb)  |
| ERG Code                                    | : 171   |
| Marine pollutant                            | : no  |

#### **International Regulations**

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

#### Special precautions for user

Remarks

: Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

#### **SECTION 15. REGULATORY INFORMATION**

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

#### CERCLA Reportable Quantity

| Components | CAS-No.  | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|------------|----------|-----------------------|--------------------------------|
| Ethanediol | 107-21-1 | 5000                  | *                              |

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

### Rotella Fully Formulated AFC w/SCA 50/50

| Version | Revision Date: | SDS Number:  | Print Date: 04/29/2023         |
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\*: Calculated RQ exceeds reasonably attainable upper limit., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA., The components with RQs are given for information.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

| SARA 311/312 Hazards | /312 Hazards : Acute toxicity (any route of exposure<br>Specific target organ toxicity (single |  | · /      | ,                 |  |
|----------------------|--|--|----------|-------------------|--|
| SARA 313             | :  | The following components are subject to reporting levels e tablished by SARA Title III, Section 313: |          | orting levels es- |  |
|                      |  | Ethanediol   | 107-21-1 | >= 50 - < 70 %    |  |

#### Clean Water Act

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

| Sodium nitrite | 7632-00-0 | 0.1671 % |
|----------------|-----------|----------|
|----------------|-----------|----------|

#### US State Regulations

| Pennsylvania Right To Know |           |
|----------------------------|-----------|
| Ethanediol                 | 107-21-1  |
| Diethylene glycol          | 111-46-6  |
| Sodium nitrite             | 7632-00-0 |

#### California Prop. 65

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

107-21-1

#### California List of Hazardous Substances

Ethanediol

#### 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:

| EINECS | : | Not all components listed. |
|--------|---|----------------------------|
| TSCA   | : | All components listed.     |
| DSL    | : | Not all components 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- 2, 1, 0 tivity)

#### Full text of other abbreviations

| ACGIH :<br>ACGIH / TWA :<br>ACGIH / STEL :<br>Abbreviations and Acronyms | TWA :<br>STEL : | USA. ACGIH Threshold Limit Values (TLV)<br>8-hour, time-weighted average<br>Short-term exposure limit<br>The standard abbreviations and acronyms used in this docu-<br>ment can be looked up in reference literature (e.g. scientific<br>dictionaries) and/or websites.   |
|--|-----------------|---|
|  |                 | ACGIH = American Conference of Governmental Industrial<br>Hygienists<br>ADR = European Agreement concerning the International<br>Carriage of Dangerous Goods by Road<br>AICS = Australian Inventory of Chemical Substances<br>ASTM = American Society for Testing and Materials<br>BEL = Biological exposure limits<br>BTEX = Benzene, Toluene, Ethylbenzene, Xylenes<br>CAS = Chemical Abstracts Service<br>CEFIC = European Chemical Industry Council<br>CLP = Classification Packaging and Labelling<br>COC = Cleveland Open-Cup<br>DIN = Deutsches Institut fur Normung<br>DMEL = Derived Minimal Effect Level<br>DNEL = Derived No Effect Level<br>DSL = Canada Domestic Substance List<br>EC = European Commission<br>EC50 = Effective Concentration fifty<br>ECETOC = European Chemicals Agency<br>EINECS = The European Inventory of Existing Commercial<br>Chemical Substances<br>EL50 = Effective Loading fifty<br>ENCS = Japanese Existing and New Chemical Substances<br>Inventory<br>EWC = European Waste Code<br>GHS = Globally Harmonised System of Classification and<br>Labelling of Chemicals<br>IARC = International Agency for Research on Cancer<br>IATA = International Maritime Dangerous Goods<br>INV = Chinese Chemicals Inventory<br>IP346 = Institute of Petroleum test method N° 346 for the<br>determination of polycyclic aromatics DMSO-extr |

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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|         |                | Pollution From SI<br>NOEC/NOEL = N<br>served Effect Lev<br>OE_HPV = Occu<br>PBT = Persistent<br>PICCS = Philippin<br>Substances<br>PNEC = Predicte<br>REACH = Regist<br>Chemicals<br>RID = Regulation<br>gerous Goods by<br>SKIN_DES = Ski<br>STEL = Short ter<br>TRA = Targeted I<br>TSCA = US Toxic<br>TWA = Time-Wei | lo Observed Effect Concentration / No Ob-<br>rel<br>pational Exposure - High Production Volume<br>, Bioaccumulative and Toxic<br>me Inventory of Chemicals and Chemical<br>d No Effect Concentration<br>ration Evaluation And Authorisation Of<br>s Relating to International Carriage of Dan-<br>Rail<br>n Designation<br>m exposure limit<br>Risk Assessment<br>c Substances Control Act |

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

Revision Date : 06/19/2020

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US / EN