

**[101] DISRUPTOR - Heavy-Duty Pre-Wash**

Professional Automotive Pre-Wash / Heavy-Duty Detergent

|                     |                         |
|---------------------|-------------------------|
| Product name        | Modulus [101] DISRUPTOR |
| Product description | Heavy-Duty Pre-Wash     |
| Product form        | Liquid / Mixture        |
| UFI                 | SN80-F0DK-U009-VP3H     |
| SDS version         | 1.0                     |
| Revision date       | April 2026              |
| Prepared by         | Modulus Group Limited   |

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

|                                |                                                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 1.1 Product identifier         | Modulus [101] DISRUPTOR                                                                                               |
| Product form                   | Liquid / Mixture                                                                                                      |
| Synonyms / UFI                 | UFI: SN80-F0DK-U009-VP3H                                                                                              |
| 1.2 Relevant identified uses   | Professional Automotive Pre-Wash / Heavy-Duty Detergent                                                               |
| Uses advised against           | Use only as directed. Do not mix with other chemical products. Avoid use on sensitive surfaces without testing first. |
| 1.3 Supplier                   | Modulus Group Limited<br>66 Paul Street<br>London<br>England<br>EC2A 4NA                                              |
| 1.4 Emergency telephone number | 07460763545                                                                                                           |

**SECTION 2: Hazards identification**

|                                                |                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.1 Classification of the substance or mixture | Serious Eye Damage/Eye Irritation: Category 1<br>Skin Corrosion/Irritation: Category 2                                                                                                                                                                                                                                  |
| 2.2 Label elements                             |                                                                                                                                                                                                                                                                                                                         |
| Hazard pictograms                              | GHS05 - Corrosion                                                                                                                                                                                                                                                                                                       |
| Signal word                                    | DANGER                                                                                                                                                                                                                                                                                                                  |
| Hazard statements                              | H315: Causes skin irritation.<br>H318: Causes serious eye damage.                                                                                                                                                                                                                                                       |
| Precautionary statements                       | P280: Wear protective gloves/eye protection/face protection.<br>P302+P352: IF ON SKIN: Wash with plenty of water.<br>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310: Immediately call a POISON CENTER/doctor. |
| 2.3 Other hazards                              | None known.                                                                                                                                                                                                                                                                                                             |
| 2.4 Unknown acute toxicity                     | 0% of the mixture consists of ingredient(s) of unknown acute toxicity.                                                                                                                                                                                                                                                  |

**SECTION 3: Composition/information on ingredients**

|               |                                            |
|---------------|--------------------------------------------|
| 3.1 Substance | Not applicable. This product is a mixture. |
|---------------|--------------------------------------------|

**3.2 Mixture - hazardous or relevant components**

| Component               | CAS No.    | Concentration | Classification                            |
|-------------------------|------------|---------------|-------------------------------------------|
| Alcohol Ethoxylate (AE) | 68439-46-3 | 5 - 15%       | Acute Tox. 4; Eye Dam. 1                  |
| Butyl Glycol            | 111-76-2   | 1 - 5%        | Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2 |
| Sodium Gluconate        | 527-07-1   | 1 - 5%        | Not Classified                            |
| Sodium Citrate          | 6132-04-3  | 1 - 5%        | Not Classified                            |
| EDTA (Tetrasodium)      | 64-02-8    | 1 - 5%        | Acute Tox. 4; Eye Dam. 1                  |

Full text of H-phrases: see Section 16.

**SECTION 4: First aid measures**

|                                 |                                                                                                                                                                            |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation                      | Move to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, seek medical attention.                                                   |
| Skin contact                    | Remove contaminated clothing. Rinse skin with plenty of water or shower for at least 15 minutes. If irritation persists, get medical advice.                               |
| Eye contact                     | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. |
| Ingestion                       | Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink 1-2 glasses of water. Seek medical attention.                            |
| Most important symptoms/effects | Acute: Causes serious eye damage. May cause skin irritation,                                                                                                               |

|                                                        |                                                                                                                                                                                                   |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                        | redness, and pain.<br>Delayed: Prolonged or repeated skin contact may cause defatting and dermatitis. Inhalation of mists may cause irritation to the respiratory tract.                          |
| <b>Immediate medical attention / special treatment</b> | Treat symptomatically. Due to the alkaline nature of the product (pH 12-13), eye injuries should be evaluated for potential corneal damage. If ingested, monitor for gastrointestinal irritation. |

## SECTION 5: Firefighting measures

|                                       |                                                                                                                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.                                                                                                                                            |
| <b>Unsuitable extinguishing media</b> | None known for this mixture.                                                                                                                                                                                         |
| <b>Special hazards</b>                | Not considered flammable but may burn if heated to decomposition. Thermal decomposition may release irritating gases and vapours such as carbon oxides and nitrogen oxides.                                          |
| <b>Advice for firefighters</b>        | Wear self-contained breathing apparatus (SCBA) and full protective firefighting gear. Use water spray to cool unopened containers exposed to fire. Prevent firefighting water from entering drains or water courses. |

## SECTION 6: Accidental release measures

|                                        |                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6.1 Personal precautions</b>        | Ensure adequate ventilation. Wear appropriate personal protective equipment, including chemical-resistant gloves and safety goggles. Avoid contact with skin, eyes, and clothing. Evacuate unnecessary personnel.                                                                                                                 |
| <b>For non-emergency personnel</b>     | Wear standard PPE (gloves and goggles). Avoid walking through spilled material as it may be slippery.                                                                                                                                                                                                                             |
| <b>For emergency personnel</b>         | Use chemical-resistant suits and boots if dealing with large spills (>25L). Ensure breathing apparatus is available if mists or vapours are generated in confined spaces.                                                                                                                                                         |
| <b>6.2 Environmental precautions</b>   | Prevent further leakage or spillage if safe to do so. Do not allow the product to enter drains, sewers, or watercourses. Large-scale discharge into the environment may lead to an increase in pH levels, which can be harmful to aquatic life.                                                                                   |
| <b>6.3 Methods and materials</b>       | Small spills: Wipe up with absorbent material such as cloth or fleece.<br>Large spills: Contain with dikes of inert absorbent material such as sand, earth, or vermiculite. Scoop into marked containers for disposal.<br>Final step: Flush the spill area with plenty of water to neutralise residual alkalinity on the surface. |
| <b>6.4 Reference to other sections</b> | Refer to Section 8 for personal protective equipment and Section 13 for waste disposal information.                                                                                                                                                                                                                               |

## SECTION 7: Handling and storage

|                                          |                                                                                                                                                                                                |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>7.1 Precautions for safe handling</b> | Avoid contact with eyes and skin. Do not breathe mists or spray. Wash hands thoroughly after handling. Ensure good ventilation.                                                                |
| <b>7.2 Conditions for safe storage</b>   | Store in original container in a cool, dry, well-ventilated area. Keep container tightly closed. Keep away from strong acids and oxidizing agents. Store at temperatures between 5°C and 30°C. |
| <b>7.3 Specific end use(s)</b>           | Professional Automotive Pre-Wash / Heavy-Duty Detergent.                                                                                                                                       |

## SECTION 8: Exposure controls/personal protection

|                                             |                                                                                                                                                                                                                                                   |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>8.1 Control parameters</b>               | Occupational Exposure Limits (OEL) for Butyl Glycol (CAS 111-76-2): TWA: 20 ppm; STEL: 50 ppm (UK/EU). No specific limits established for other components at current dilution ranges.                                                            |
| <b>8.2 Appropriate engineering controls</b> | Ensure adequate ventilation, especially in confined areas. Provide eyewash stations and safety showers close to the workstation where mixing or application of concentrate occurs.                                                                |
| <b>Eye protection</b>                       | Wear tight-sealing safety goggles or a full face shield.                                                                                                                                                                                          |
| <b>Hand protection</b>                      | Wear chemical-resistant gloves. Nitrile rubber recommended.                                                                                                                                                                                       |
| <b>Respiratory protection</b>               | None required under normal use. If spray mists are generated, use a respirator with an organic vapour/particulate filter.                                                                                                                         |
| <b>General hygiene</b>                      | Wash hands, forearms, and face thoroughly after handling. Keep away from food and drink.                                                                                                                                                          |
| <b>Protective clothing</b>                  | Wear chemical-resistant apron or protective clothing to prevent skin contact during large-scale handling or mixing. Nitrile or PVC materials are suitable.                                                                                        |
| <b>Environmental exposure controls</b>      | Prevent mixture from entering surface water drains, sewers, or groundwater. Use bunding or containment during large-scale decanting. Any discharge into the environment must be neutralised to a safe pH range (6.0-9.0) in accordance with local |

|  |              |
|--|--------------|
|  | regulations. |
|--|--------------|

## SECTION 9: Physical and chemical properties

|                         |                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Physical state</b>   | Liquid                                                                                                |
| <b>Appearance</b>       | Clear to slightly straw-coloured, viscous liquid. Free of visible sediment.                           |
| <b>Odour</b>            | Mild solvent / characteristic surfactant odour                                                        |
| <b>pH</b>               | 12.0 - 13.0                                                                                           |
| <b>Evaporation rate</b> | Similar to water                                                                                      |
| <b>Melting point</b>    | 0°C                                                                                                   |
| <b>Freezing point</b>   | ~0°C                                                                                                  |
| <b>Boiling point</b>    | ~100°C                                                                                                |
| <b>Flash point</b>      | Non-combustible / Not applicable                                                                      |
| <b>VOC content</b>      | ~4% (accounts for Butyl Glycol).                                                                      |
| <b>Miscibility</b>      | Completely miscible with water.                                                                       |
| <b>Conductivity</b>     | High, due to alkaline salts and chelators.                                                            |
| <b>Corrosion</b>        | May be corrosive to soft metals such as unlacquered aluminium if left to dry; always rinse after use. |

## SECTION 10: Stability and reactivity

|                                                |                                                                                                                                                |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity</b>                         | Stable under normal conditions.                                                                                                                |
| <b>10.2 Chemical stability</b>                 | Stable under recommended storage conditions.                                                                                                   |
| <b>10.3 Possibility of hazardous reactions</b> | None under normal processing.                                                                                                                  |
| <b>10.4 Conditions to avoid</b>                | Extremes of temperature and direct sunlight.                                                                                                   |
| <b>10.5 Incompatible materials</b>             | Strong acids. Mixing this high-pH product with an acid product, such as an acid wheel cleaner, could cause a violent exothermic reaction/heat. |
| <b>10.6 Hazardous decomposition products</b>   | Carbon oxides, nitrogen oxides.                                                                                                                |

## SECTION 11: Toxicological information

|                                          |                                                                                                                                                                                            |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute toxicity</b>                    | Not classified as acutely toxic based on the calculation of ingredients. The concentration of Butyl Glycol and surfactants is below the threshold for oral/dermal toxicity classification. |
| <b>Skin corrosion/irritation</b>         | Category 2. Causes skin irritation. Prolonged contact may cause redness and inflammation.                                                                                                  |
| <b>Serious eye damage/irritation</b>     | Category 1. Causes serious eye damage. Contact with concentrate may cause irreversible corneal injury if not treated immediately.                                                          |
| <b>Respiratory or skin sensitisation</b> | Not classified as a sensitiser.                                                                                                                                                            |
| <b>Germ cell mutagenicity</b>            | No evidence of mutagenic effects.                                                                                                                                                          |
| <b>Carcinogenicity</b>                   | No components are listed as carcinogens by IARC, NTP, or OSHA.                                                                                                                             |
| <b>Reproductive toxicity</b>             | No evidence of reproductive toxicity.                                                                                                                                                      |
| <b>STOT - Single exposure</b>            | May cause respiratory irritation if mists are inhaled in high concentrations.                                                                                                              |
| <b>STOT - Repeated exposure</b>          | Not classified. Prolonged exposure to Butyl Glycol may have effects on the blood and kidneys, but not at the levels found in this mixture.                                                 |
| <b>Aspiration hazard</b>                 | Not classified.                                                                                                                                                                            |

## SECTION 12: Ecological information

|                                           |                                                                                                                 |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>12.1 Toxicity</b>                      | Low toxicity to aquatic organisms. High pH may be harmful to aquatic life in large quantities.                  |
| <b>12.2 Persistence and degradability</b> | The surfactants in this product are biodegradable according to the UK/EU Detergent Regulation (EC) No 648/2004. |
| <b>12.3 Bioaccumulative potential</b>     | Does not bioaccumulate.                                                                                         |
| <b>12.4 Mobility in soil</b>              | Liquid is water-soluble and is expected to have high mobility in soil.                                          |
| <b>12.5 Other adverse effects</b>         | Large-scale discharge may lead to a localised increase in pH levels, which can be harmful to aquatic organisms. |

## SECTION 13: Disposal considerations

|                                     |                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>13.1 Waste treatment methods</b> | Dispose of contents/container in accordance with local and national regulations. Small amounts (up to 5L) may be diluted with plenty of water and washed to a foul sewer. For large quantities, contact a licensed waste disposal contractor. Empty containers should be triple-rinsed before being sent for recycling or disposal. |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 14: Transport information

| Transport mode | Proper shipping name                                              | Hazard class                                  | Identification number | Packing group   | Label codes / other                                                                                                              |
|----------------|-------------------------------------------------------------------|-----------------------------------------------|-----------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------|
| DOT            | Not regulated.<br>Alternative:<br>Cleaning Compound, Liquid, NOI. | Not applicable / non-hazardous for transport. | None.                 | Not applicable. | ERG number: Not applicable.                                                                                                      |
| IMDG           | Not regulated.                                                    | Not applicable.                               | None.                 | Not applicable. | Subsidiary risks: None. Label codes: None. EmS-No. (Fire): Not applicable. EmS-No. (Spillage): S-C. MFAG Number: Not applicable. |
| IATA           | Not regulated.                                                    | Not applicable.                               | None.                 | Not applicable. | Subsidiary risks: None. Label codes: None.                                                                                       |

## SECTION 15: Regulatory information

|                                            |                                                                                                                                                                                                                                                                                 |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>15.1 Federal/regulatory information</b> | All components are listed on the TSCA Inventory. This product contains 2-Butoxyethanol (Butyl Glycol), which is subject to the reporting requirements of SARA Section 313. This mixture does not contain any hazardous air pollutants (HAPs).                                   |
| <b>15.2 State/regional regulations</b>     | This product contains ingredients (2-Butoxyethanol) known to the State of California to cause irritation but is not currently listed under Proposition 65 for cancer or reproductive toxicity. Check local state regulations for specific VOC limits for automotive detergents. |

## SECTION 16: Other information

|                          |                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product code</b>      | 101 DISRUPTOR                                                                                                                                               |
| <b>Version</b>           | 1.0                                                                                                                                                         |
| <b>Revision date</b>     | April 2026                                                                                                                                                  |
| <b>Prepared by</b>       | Modulus Group Limited                                                                                                                                       |
| <b>Other information</b> | This SDS was created to comply with GHS standards. All surfactants used in this formulation are readily biodegradable according to international standards. |

Full text of H and P statements

| Code                  | Phrase                                                                                                                           |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>H315</b>           | Causes skin irritation.                                                                                                          |
| <b>H318</b>           | Causes serious eye damage.                                                                                                       |
| <b>P264</b>           | Wash hands thoroughly after handling.                                                                                            |
| <b>P280</b>           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| <b>P302+P352</b>      | IF ON SKIN: Wash with plenty of water.                                                                                           |
| <b>P305+P351+P338</b> | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| <b>P310</b>           | Immediately call a POISON CENTER/doctor.                                                                                         |

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