SAFETY DATA SHEET

SDS # : 083985

RUBIA TIR 7900 15W40

Date of the previous version: not applicable
Revision Date: 2015-05-26
Version 1

1. IDENTIFICATION

Product identifier

Product name RUBIA TIR 7900 15W40

Other means of identification

Product Code(s) 083985
Number R0Z
Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Heavy duty diesel.
Uses advised against Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

Supplier Address TOTAL Specialties USA Inc
1201 Louisiana Street, Suite 1800
Houston, TX 77002
Phone: +1 800 323 3198

Contact Point Technical/ HSEQ

E-mail Address USRMLIN-info@total.com

Emergency telephone number
Company Phone Number +1 (908) 862-9300
Emergency telephone CHEMTREC: +1 800 424 9300 (24h)

2. HAZARDS IDENTIFICATION

Classification

Serious eye damage/eye irritation - Category 2A

Label elements
WARNING

Causes serious eye irritation

Precautionary Statements - Prevention
Wear eye/face protection
Wash hands thoroughly after handling

Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Unknown Acute Toxicity
No information available

Hazards not otherwise classified (HNOC)
• None known

Other information
• Contaminated surfaces will be extremely slippery
• Should not be released into the environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>bis(nonylphenyl)amine</td>
<td>36878-20-3</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoctyl) esters, zinc salts</td>
<td>113706-15-3</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Butene, homopolymer (products derived from either/ or But-1-ene/But-2-ene)</td>
<td>9003-29-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs</td>
<td>84605-20-9</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures for different exposure routes
IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE. Show this material safety data sheet to the doctor in attendance. If symptoms persist, call a physician.

Eye contact
Keep eye wide open while rinsing. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.

Skin contact
Flush with water. Get medical attention immediately if symptoms occur. Wash contaminated clothing before reuse.

Inhalation
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get medical attention immediately if symptoms occur.

Ingestion
Clean mouth with water. Remove from exposure, lie down. Drink 1 or 2 glasses of water. Get medical attention immediately if symptoms occur. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Protection of First-aiders
Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Skin contact
Not classified.

Eye contact
Causes serious eye irritation.

Inhalation
Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion
Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Itching. Redness.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Foam. Carbon dioxide (CO$_2$). Dry chemical.

Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter and spread fire.

Special Hazard
Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

Explosion Data

Sensitivity to Mechanical Impact
None.

Sensitivity to Static Discharge
None.
Protection Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Information
Use personal protective equipment. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery.

Other information
See Section 12 for additional information.

Environmental precautions

General Information
Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for cleaning up
Dam up. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Collect spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use mechanical means such as pumps, skimmers and absorbent materials.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Prevent the formation of vapors, mists and aerosols. When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

Hygiene measures
When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

Conditions for safe storage, including any incompatibilities
Technical measures/Storage conditions

Keep out of reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

Materials to Avoid

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits
Contains no substances with occupational exposure limit values.

Exposure controls

Engineering Measures
Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

General Information
If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Eye/ Face Protection
If splashes are likely to occur, wear: Safety glasses with side-shields.

Skin and body protection
Wear suitable protective clothing. Protective shoes or boots.

Hand Protection
Impervious gloves. Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene measures
When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>brown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical State @20°C</td>
<td>liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Petroleum distillates</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 220 °C</td>
<td>No information available</td>
<td>Cleveland Open Cup (COC)</td>
</tr>
<tr>
<td></td>
<td>&gt; 428 °F</td>
<td>No information available</td>
<td>Cleveland Open Cup (COC).</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>upper</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>lower</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>0.86 - 0.875</td>
<td>@ 15 °C</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>860 - 875 kg/m³</td>
<td>@ 15 °C</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>logPow</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>82 mm²/s</td>
<td>@ 40 °C</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.86 - 0.875</td>
<td>@ 15 °C</td>
<td></td>
</tr>
<tr>
<td>Freezing Point</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
No information available.
SDS #: 083985  RUBIA TIR 7900 15W40

Date of the previous version: not applicable  Revision Date: 2015-05-26  Version 1

Chemical stability  Stable under recommended storage conditions.

Possibility of hazardous reactions  None under normal processing.

Conditions to Avoid  No information available.

Incompatible Materials  Strong oxidizing agents.

Hazardous Decomposition Products  None under normal use.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product Information

Skin contact  Not classified.

Eye contact  Causes serious eye irritation.

Inhalation  Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion  Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Numerical measures of toxicity - Product Information

ATEmix (oral)  240754.1 mg/kg

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>bis(nonylphenyl)amine 36887-20-3</td>
<td>LD50 &gt; 5000 mg/kg (Rat - OECD 401)</td>
<td>LD50 &gt; 2000 mg/kg (Rat - OECD 402)</td>
<td></td>
</tr>
<tr>
<td>Phosphorodithioic acid, mixed O.O-bis(sec-Bu and isoocyl) esters, zinc salts 113706-15-3</td>
<td>LD50 2600 mg/kg</td>
<td>LD50 &gt; 3160 mg/kg (OECD 402)</td>
<td></td>
</tr>
<tr>
<td>Butene, homopolymer(products derived from either/or But-1-ene/But-2-ene) 9003-29-6</td>
<td>LD50 &gt; 2000 mg/kg (Rat - OECD 401)</td>
<td>LD50 &gt; 2000 mg/kg (Rat - OECD 402)</td>
<td>LD50(4h) &gt; 19171 mg/m³ (Vapour - Rat)</td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms  Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting, itching, Redness.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Sensitization
Not classified as a sensitizer.

Carcinogenicity
This product is not classified carcinogenic.

Mutagenicity
This product is not classified as mutagenic.

Reproductive toxicity
This product does not present any known or suspected reproductive hazards.

Aspiration Hazard
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Acute aquatic toxicity - Product Information
No experimental data available

Acute aquatic toxicity - Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
<th>Toxicity to microorganisms</th>
</tr>
</thead>
<tbody>
<tr>
<td>bis(nonylphenyl)amine, 36878-20-3</td>
<td>EC50 (72h) &gt; 100 mg/l (Desmodesmus subspicatus - OECD 201)</td>
<td>LC50 (96h) &gt; 100 mg/l (Brachyanio rerio - OECD 203)</td>
<td>EC50 (48h) &gt; 100 mg/l (Daphnia magna - OECD 202)</td>
<td></td>
</tr>
<tr>
<td>Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts, 113706-15-3</td>
<td>EbC50 (96h) 2.1 mg/l (Selenastrum capricornutum - static - OECD 201)</td>
<td>LC50 (96h) 4.5 mg/l (Oncorhynchus mykiss - semi-static - OECD 203)</td>
<td>EL50 (48h) 5.4 mg/l (Daphnia magna - static - OECD 202)</td>
<td></td>
</tr>
<tr>
<td>Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene), 9003-29-6</td>
<td>EC50(72h) &gt; 19.2 mg/l (Desmodesmus subspicatus - static - OECD 201)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chronic aquatic toxicity - Product Information
No experimental data available

Chronic aquatic toxicity - Component Information
No information available

Effects on terrestrial organisms
No experimental data available.

Persistence and degradability

General Information
No information available.

Bioaccumulative potential
Some components have a high bioaccumulative potential.

No information available

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>bis(nonylphenyl)amine</td>
<td>7.7</td>
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<tr>
<td>Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoctyl) esters, zinc salts</td>
<td>0.9</td>
</tr>
<tr>
<td>Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)</td>
<td>7.6</td>
</tr>
</tbody>
</table>

No information available

1.7 % (w/w) = Volatile organic compounds (VOC) content

Dispose of in accordance with local regulations. Should not be released into the environment. Can be landfilled or incinerated, when in compliance with local regulations.

Dispose of in accordance with local regulations.

Not regulated

Not regulated

Not regulated

Not regulated

Not regulated

Not regulated
International Inventories

All the substances contained in this product are listed or exempted from listing in the following inventories:
U.S.A. (TSCA)

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Acute Health Hazard</th>
<th>Chronic Health Hazard</th>
<th>Fire Hazard</th>
<th>Sudden Release of Pressure Hazard</th>
<th>Reactive Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
</tbody>
</table>

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product contains chemicals known to the State of California to cause cancer or reproductive toxicity.

U.S. State Right-to-Know Regulations

No information available

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and chemical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>Physical</td>
</tr>
<tr>
<td>HMIS</td>
<td>Health Hazard</td>
<td>Flammability</td>
<td>Physical Hazard</td>
<td>Personal protection</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

NFPA (National Fire Protection Association)
HMIS (Hazardous Material Information System)
Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard.
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.