SAFETY DATA SHEET

SDS # : 084008
TRANS. MDL NA 80W90

Date of the previous version: 2015-05-13  Revision Date: 2015-06-08  Version 2

1. IDENTIFICATION

Product identifier

Product name  TRANS. MDL NA 80W90

Other means of identification

Product Code(s)  084008

Number  JJ4

Substance/mixture  Mixture

Recommended use of the chemical and restrictions on use

Identified uses  Gear oil. Transmission fluid.

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 2B
Respiratory Sensitization  - Category 1
Skin sensitization  - Category 1

Label elements
DANGER

May cause an allergic skin reaction
May cause allergy or asthma symptoms or breathing difficulties if inhaled
Causes eye irritation

Precautionary Statements - Prevention
Avoid breathing dust/fume/gas/mist/vapours/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Wash hands and face thoroughly after handling
Wear respiratory protection

Precautionary Statements - Response
Specific treatment (see Section 4 on this label)

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

Skin
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention

Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Unknown Acute Toxicity
No information available

Hazards not otherwise classified (HNOC)
• May be harmful if swallowed
• May be harmful in contact with skin
• May be harmful if inhaled
• Causes mild skin irritation
• May be harmful if swallowed and enters airways

Other information
• 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>Long-chain alkyl amine</td>
<td>^</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Long-chain alkenyl amine</td>
<td>^</td>
<td>0.1-1</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures for different exposure routes

**General advice**
IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

**Eye contact**
Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention immediately if symptoms occur.

**Skin contact**
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur. Wash contaminated clothing before reuse.

**Inhalation**
Move to fresh air. If not breathing, give artificial respiration. Get medical attention immediately if symptoms occur.

**Ingestion**
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

**Most important symptoms/effects, acute and delayed**

**Skin contact**
May cause an allergic skin reaction. Causes mild skin irritation. May be harmful in contact with skin.

**Eye contact**
Causes eye irritation.

**Inhalation**
May be harmful if inhaled.

**Ingestion**
May be harmful if swallowed. May be harmful if swallowed and enters airways.

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

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

**Notes to physician**
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use CO2, dry chemical, or foam.

**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.

Protective 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

Ensure adequate ventilation. For personal protection see section 8. Keep non-involved personnel away from the area of spillage. Do not touch or walk through spilled material. Avoid breathing vapors or mists.

Other information

See Section 12 for additional information.

Environmental precautions

General Information

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Methods for cleaning up

Keep in suitable, closed containers for disposal. Contain and collect spillage 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).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

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.

Prevention of fire and explosion

Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.

Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands and face before breaks and immediately after handling the product. 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 away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. 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/PERSOval PROTECTION

Control parameters

Exposure limits

Mineral oil mist:
USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined).

Exposure controls

Engineering Measures

Apply technical measures to comply with the occupational exposure limits.

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. Long sleeved clothing.

Hand Protection

Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. 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

None required under normal usage. 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

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands and face before breaks and immediately after handling the product. 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>amber</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical State @20°C</td>
<td>liquid</td>
<td></td>
<td></td>
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<tr>
<td>Odor</td>
<td>Hydrocarbon-like</td>
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<td></td>
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<tr>
<td>Odor Threshold</td>
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</tr>
<tr>
<td>Flash point</td>
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</tr>
<tr>
<td></td>
<td>410 - 572 °F</td>
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<td>ASTM D 93.</td>
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<tr>
<td>Evaporation rate</td>
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<tr>
<td>Flammability Limits in Air</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>upper</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
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</tr>
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<tr>
<td>Relative density</td>
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<td>@ 15 °C</td>
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<tr>
<td>Density</td>
<td>855 - 905 kg/m³</td>
<td>@ 15 °C</td>
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<tr>
<td>Water solubility</td>
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<td>Solubility in other solvents</td>
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<td>logPow</td>
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</tr>
<tr>
<td>Autoignition temperature</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
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<td></td>
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<tr>
<td>Viscosity, kinematic</td>
<td>142 mm²/s</td>
<td>@ 40 °C</td>
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<td>Explosive properties</td>
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<td>Oxidizing Properties</td>
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<td></td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Not applicable</td>
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<td></td>
</tr>
<tr>
<td>Freezing Point</td>
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<tr>
<td>Pour point</td>
<td>-27 °C</td>
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<td>ASTM D 97</td>
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</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity

None under normal processing.

Chemical stability

Stable under recommended storage conditions.
Possibility of hazardous reactions | None under normal processing.
---|---
Conditions to Avoid | Heat, flames and sparks. Take precautionary measures against static discharges.
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 | May cause an allergic skin reaction. Causes mild skin irritation. May be harmful in contact with skin. |
| Eye contact  | Causes eye irritation. |
| Inhalation   | May be harmful if inhaled. |
| Ingestion    | May be harmful if swallowed. May be harmful if swallowed and enters airways. |

Numerical measures of toxicity - Product 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>Long-chain alkenyl amine</td>
<td>ATE (Cat 4)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Information on toxicological effects

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

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization | May cause sensitization by skin contact. May cause an allergic skin reaction. May cause sensitization by inhalation.
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
No information available

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
Product Information
No information available.

logPow
No information available

Component Information
No information available.

Mobility
Soil
Other adverse effects
No information available

General Information
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment
Waste Disposal Methods
Dispose of in accordance with local regulations.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT
Not regulated

TDG
Not regulated

MEX
Not regulated

ICAO/IATA
Not regulated

IMDG/IMO
Not regulated

ADR/RID
Not regulated

ADN
Not regulated

15. REGULATORY INFORMATION

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
- Acute Health Hazard: Yes
- Chronic Health Hazard: no
- Fire Hazard: no
- Sudden Release of Pressure Hazard: no
- Reactive Hazard: no

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 does not contain any Proposition 65 chemicals.

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>1</td>
<td>1</td>
<td>0</td>
<td>Personal protection X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>0</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

Revision Date: 2015-06-08
Revision Note: No information available

Legend

Section 8
ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH - National Institute for Occupational Safety and Health
TLV - Threshold Limit Values
PEL - Permissible Exposure Limits
IDHL - Immediately Dangerous to Life or Health concentrations
TWA - Time Weight Average
STEL - Short Term Exposure Limits
S* - Skin notation
TSCA - Toxic Substance Control Act

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.

End of the safety data sheet