

SECTION 1 - IDENTIFICATION

PRODUCT IDENTIFIER: TOPPER® DCT Dual-Clutch Transmission Fluid

OTHER NAMES: DCT fluid; dual-clutch transmission fluid; synthetic transmission fluid.

RECOMMENDED USE: High-performance fluid for wet dual-clutch transmissions (DCT) when the manufacturer specifies a compatible fluid. Suitable for multi-vehicle applications according to the specifications indicated in the technical data sheet.

RESTRICTIONS ON USE: Do not use in applications other than those specified by the equipment manufacturer. Do not ingest. Avoid the formation of mists. Confirm compatibility with the current OEM specification before use.

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SECTION 2 - HAZARD IDENTIFICATION

GHS CLASSIFICATION: Acute aquatic toxicity - Category 3; chronic aquatic toxicity - Category 3.

OSHA HAZARD COMMUNICATION: Not classified as hazardous under OSHA physical or health hazard classes based on the reference SDS data.

SIGNAL WORD: Not required.

PICTOGRAMS: Not required.

HAZARD STATEMENTS: H402 - Harmful to aquatic life. H412 - Harmful to aquatic life with long lasting effects.

PREVENTION: P273 - Avoid release to the environment. Avoid breathing oil mist or hot vapors. Wash thoroughly after handling. Keep out of reach of children.

DISPOSAL: P501 - Dispose of contents and container in accordance with applicable regulations.

OTHER HAZARDS: Spilled product may create a slipping hazard. According to the reference SDS, it does not contain substances classified as PBT or vPvB.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

PRODUCT TYPE: Mixture

Synthetic DCT transmission fluid formulated with synthetic base stocks, hydrogenated base oil, and performance additives.

Component	CAS Number	Concentration
1-Decene homopolymer/oligomers, hydrogenated	68037-01-4	50-100%
Hydrogenated base oil	64742-54-7	10-<25%
Isooctadecanoic acid, reaction products with tetraethylenepentamine	68784-17-8	1-<2.5%
1,3,4-Thiadiazolidine-2,5-dithione, reaction products with H ₂ O ₂ and tert-nonanethiol	91648-65-6	1-<2.5%
bis(Nonylphenyl)amine	36878-20-3	1-<2.5%
2-Ethylhexyl methacrylate	688-84-6	0.025-<0.25%
Ethanol, 2,2'-iminobis-, N-tallow alkyl derivatives	61791-44-4	0.025-<0.25%
C14-18 alpha-olefin epoxide, reaction products with boric acid	Not specified	0.025-<0.25%

VALIDATION NOTE: The composition and ranges above are taken from the provided reference DCT SDS and must be confirmed against the actual TOPPER DCT formulation before issuing this SDS as a regulatory document.

SECTION 4 - FIRST-AID MEASURES

EYE CONTACT: Rinse immediately with plenty of water. Remove contact lenses, if easy to do, and continue rinsing for at least 10 minutes. Obtain medical attention if irritation persists.

SKIN CONTACT: Remove contaminated clothing and wash skin thoroughly with soap and water. Obtain medical attention if discomfort persists.

INGESTION: Rinse mouth. Do not induce vomiting unless directed by medical personnel. If the person is conscious, give small amounts of water. Obtain medical attention if symptoms develop.

INHALATION: Move the person to fresh air and keep at rest. Obtain medical attention if coughing, dizziness, or breathing difficulty occurs.

MOST IMPORTANT SYMPTOMS / EFFECTS: Prolonged exposure to high concentrations of mist may affect the respiratory system. Ingestion may cause gastrointestinal discomfort. Prolonged contact may dry the skin, and eye contact may cause temporary irritation.

SPECIAL TREATMENT: Treat symptomatically. No specific treatment is required.

SECTION 5 - FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Alcohol-resistant foam, carbon dioxide (CO₂), dry chemical powder, or water fog. Use extinguishing media appropriate for the surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA: Do not use a direct water jet, as it may spread the burning product.

FLASH POINT: 210 °C (410 °F), Cleveland open cup, ASTM D92.

SPECIFIC HAZARDS: Not classified as flammable, but containers may build pressure when heated. Thermal decomposition or combustion may produce harmful gases or vapors, including carbon monoxide and carbon dioxide.

PROTECTIVE EQUIPMENT / PROCEDURES: Avoid breathing fire gases or vapors. Evacuate the area. Cool heat-exposed containers with water spray. Firefighters should wear positive-pressure self-contained breathing apparatus and appropriate protective clothing.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Keep unnecessary and unprotected personnel away. Use the protective equipment specified in Section 8. Spilled material may create a slipping hazard.

ENVIRONMENTAL PRECAUTIONS: Avoid discharge to drains, sewers, soil, and waterways. Harmful to aquatic life with long lasting effects. Notify authorities if significant environmental contamination occurs.

CONTAINMENT AND CLEANUP: Stop the leak if it can be done without risk. Absorb the spill with inert, dry material and place it in a suitable labeled container. Recover or recycle when possible. Dispose of waste in accordance with applicable regulations.

REFERENCES: For personal protection, see Section 8. For disposal, see Section 13.

SECTION 7 - HANDLING AND STORAGE

GENERAL HANDLING: Read and follow the manufacturer's recommendations. Handle containers carefully to minimize spills. Avoid prolonged contact with used product and the formation of mists. Do not eat, drink, or smoke while using this product. Wash thoroughly after handling.

STORAGE: Keep the container tightly closed in a cool, dry, well-ventilated place. Protect containers from physical damage and keep away from incompatible materials.

EMPTY CONTAINERS: Do not reuse empty containers for other purposes. Containers may retain product residues; dispose of or recycle them safely.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS: No specific exposure limits are known for the ingredients according to the reference SDS. Apply general mineral oil mist limits where applicable and in accordance with workplace regulations.

ENGINEERING CONTROLS: Provide adequate general ventilation. Use local exhaust ventilation when mists or hot vapors may be generated.

EYE / FACE PROTECTION: Wear safety glasses with side shields; where there is a risk of splashing, wear chemical splash goggles.

HAND PROTECTION: Wear chemical-resistant, impervious gloves when prolonged or repeated contact is possible. Select glove material and breakthrough time in consultation with the glove manufacturer.

SKIN / BODY PROTECTION: Wear appropriate work clothing and footwear. Change and wash contaminated clothing before reuse.

RESPIRATORY PROTECTION: Normally not required with adequate ventilation. If a risk assessment indicates possible inhalation of mist or contaminants, use approved respiratory protection.

HYGIENE: Provide an eyewash station where appropriate. Wash at the end of each work shift and before eating, drinking, smoking, or using the restroom.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

The TOPPER DCT technical values shown below are typical values and do not constitute a product specification.

Property	Value / description
Physical state	Liquid
Color	Red
Odor	Mild hydrocarbon (reference)
Odor threshold	No data available
pH	No data available
Boiling point	No data available
Melting / freezing point	No data available
Vapor pressure / vapor density	No data available
Solubility	No data available
Density at 15 °C	0.854 kg/L - ASTM D1298
Kinematic viscosity at 40 °C	35.98 cSt - ASTM D445
Kinematic viscosity at 100 °C	7.206 cSt - ASTM D445
Viscosity index (minimum)	169 - ASTM D2270
Brookfield viscosity at -40 °C	12,000 cP - ASTM D2983
Pour point	-45 °C - ASTM D97
Flash point	210 °C - ASTM D92, Cleveland open cup
Autoignition temperature	No data available
Explosive / oxidizing properties	Not considered explosive; does not meet the criteria for classification as oxidizing (reference)

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY: No hazardous reactions are known under normal conditions of use. See the other subsections for additional information.

CHEMICAL STABILITY: Stable at normal ambient temperatures and under the recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: No potentially hazardous reactions are known under normal conditions.

CONDITIONS TO AVOID: Excessive heat, flames, sparks, and other strong ignition sources; contamination with incompatible materials.

INCOMPATIBLE MATERIALS: No specific material has been identified in the reference SDS that would create a hazardous situation with the product.

HAZARDOUS DECOMPOSITION PRODUCTS: Does not decompose under normal conditions. Thermal decomposition or combustion may produce harmful gases or vapors.

SECTION 11 - TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE: Accidental ingestion, inhalation of mist, and skin or eye contact.

ACUTE ORAL / DERMAL / INHALATION TOXICITY: Based on the available reference SDS data, the mixture does not meet the classification criteria for acute toxicity.

SKIN CORROSION / IRRITATION: Not classified. Prolonged contact may cause skin dryness.

SERIOUS EYE DAMAGE / IRRITATION: Not classified; may cause temporary eye irritation.

RESPIRATORY OR SKIN SENSITIZATION: The mixture is not classified based on the available data.

MUTAGENICITY / CARCINOGENICITY / REPRODUCTIVE TOXICITY: The available data do not meet the classification criteria for the mixture. No ingredient in the reference SDS is listed as an applicable IARC carcinogen.

SPECIFIC TARGET ORGAN TOXICITY: Not classified for single or repeated exposure based on the available data.

ASPIRATION HAZARD: The mixture is not classified as an aspiration hazard based on the available data; however, some reference components present an aspiration hazard. Do not induce vomiting unless directed by medical personnel.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY: Harmful to aquatic life with long lasting effects.

PERSISTENCE AND DEGRADABILITY: The degradability of the mixture is not known. The main reference synthetic hydrocarbons are not readily biodegradable; the hydrogenated base oil is described as inherently biodegradable.

BIOACCUMULATIVE POTENTIAL: No data are available for the mixture. The reference SDS reports log Pow >6.5 for the main polyalphaolefin component.

MOBILITY IN SOIL: No data are available for the mixture. The main reference component is insoluble in water.

OTHER ADVERSE EFFECTS: Avoid release to the environment.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Minimize waste generation. Reuse or recycle whenever possible. Dispose of non-recyclable product through an authorized waste contractor in compliance with applicable environmental and waste regulations.

CONTAINERS: Collect containers for reuse or recycling where feasible. Do not discharge untreated waste to sewers. Empty containers may retain residues and must be handled safely.

SECTION 14 - TRANSPORT INFORMATION

Regulation / field	Information
U.S. DOT	Not regulated as dangerous goods for transport according to the reference SDS
UN Number	Not applicable
Proper shipping name	Not applicable; commercial description: transmission fluid/oil
Hazard class	Not applicable
Packing group	Not applicable
IMO / IMDG	Not regulated as dangerous goods
ICAO / IATA	Not regulated as dangerous goods
Environmental hazards for transport	Not classified as an environmentally hazardous substance for transport purposes in the reference SDS
Transport in bulk MARPOL / IBC	Not applicable
Special precautions	Keep containers closed, upright, and protected against leaks or damage

SECTION 15 - REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: This document follows the 16-section format of Appendix D to 29 CFR 1910.1200. The reference DCT SDS classifies the mixture as not hazardous under OSHA physical or health hazard classes.

SARA / CERCLA: The reference SDS does not identify ingredients subject to SARA 302, CERCLA, or SARA 311/312 hazard categories. It reports one component under SARA 313; applicability to TOPPER DCT must be confirmed against the actual formulation.

CALIFORNIA PROPOSITION 65: The reference SDS does not identify ingredients listed as carcinogens or reproductive toxicants. This must be verified against the actual formulation before issuing a regulatory statement.

TSCA: The reference SDS indicates that all of its ingredients are listed or exempt under TSCA. TOPPER DCT compliance must be verified against the final composition.

OTHER REGULATIONS: The user is responsible for complying with applicable federal, state, local, and international requirements for storage, handling, transport, and disposal.