



1. Chemical Product and Company Identification

Product name	TRANSYND RD
MSDS#	0000001592
Historic MSDS#:	None.
Product Use	Automatic transmission fluid For specific application advice see appropriate Technical Data Sheet or consult your BP representative
Supplier	Castrol Heavy Duty Lubricants Inc 9300 Pulaski Highway Baltimore, Maryland 21220-2495
EMERGENCY HEALTH INFORMATION:	1 (800) 447-8735
EMERGENCY SPILL INFORMATION:	1 (800) 424-9300 CHEMTREC (USA)
OTHER PRODUCT INFORMATION	1 (866) 4 BP - MSDS (866-427-6737 Toll Free - North America) email: bpcares@bp.com

2. Composition / information on ingredients

Ingredient Name	CAS #	% by Weight	Exposure Limits
1-DECENE, HOMOPOLYMER, HYDROGENATED	68037-01-4	60-100	None assigned.
Alkoxylated long chain alkyl amine	Proprietary	0.1-1	None assigned.
Proprietary performance additives	proprietary	5-10	None assigned.

3. Hazards identification

Physical state	Liquid.
Color	Red.
Emergency Overview	WARNING! CAUSES EYE IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. Avoid contact with skin and clothing. Wash thoroughly after handling. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
Routes of Entry	Skin contact. Eye contact. Inhalation. Ingestion.
POTENTIAL HEALTH EFFECTS	
Eyes	Causes eye irritation.
Skin	May cause allergic skin reaction. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
Inhalation	Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.
Ingestion	Causes gastrointestinal irritation and diarrhea.

See Toxicological Information (section 11)

4. First-aid measures

Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin Contact	Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

5. Fire-fighting measures

Flammability of the Product	May be combustible at high temperature.
Flash point	220 °C (OPEN CUP) Cleveland.
Products of Combustion	carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...)
Unusual fire/explosion hazards	None identified. This material is not explosive as defined by established regulatory criteria.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Protective Clothing (Fire)	Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

6. Accidental release measures

Personal Precautions	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
Environmental Precautions and Clean-up Methods	If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

7. Handling and storage

Handling	Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wear suitable protective clothing. Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Empty containers may contain toxic, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

8. Exposure controls/personal protection

Occupational Exposure Limits	
1-DECENE, HOMOPOLYMER, HYDROGENATED	None assigned.
Control Measures	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Hygiene measures	Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
Personal Protection	
Eyes	Avoid contact with eyes. Chemical splash goggles.
Skin and Body	Avoid prolonged or repeated contact with skin. Wear protective clothing if prolonged or repeated contact is likely.
Respiratory	None required; however, use of adequate ventilation is good industrial practice. If heated and ventilation is inadequate, use a NIOSH certified respirator with an organic vapor cartridge and P95 particulate filter.

Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

Physical state	Liquid.
Odor	Mild
Color	Red.
Pour Point	-55 °C
Specific Gravity	0.85
Solubility	Not available.
Viscosity	kinematic: 53.9 mm ² /s (53.9 cSt) at 40°C kinematic: 9.8 mm ² /s (9.8 cSt) at 100°C
Viscosity Index	168

10. Stability and reactivity

Stability and Reactivity	The product is stable.
Conditions to avoid	Keep away from heat, sparks and flame. Keep away from sources of ignition.
Incompatibility with Various Substances	Reactive with oxidizing agents.
Hazardous Decomposition Products	carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...)
Hazardous Polymerization	Will not occur.

11. Toxicological information

Acute toxicity	Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhea. At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapor, mists or fumes resulting from thermal decomposition products occurs.
Chronic toxicity	
Carcinogenic Effects	No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).
Mutagenic Effects	No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.
Reproductive Effects	No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.
Teratogenic effects	No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

12. Ecological information

Ecotoxicity	Ecological testing has not been conducted on this product by Castrol.
Persistence/degradability	Inherently biodegradable
Mobility	Spillages may penetrate the soil causing ground water contamination.
Bioaccumulative potential	This product is not expected to bioaccumulate through food chains in the environment.
Other Ecological Information	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

13. Disposal considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Consult your local or regional authorities.

14. Transport information

Not classified as hazardous for transport (DOT, TDG, UN , IMO, IATA/ICAO).

15. Regulatory information

U.S. Federal Regulations

US INVENTORY (TSCA): In compliance.

SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355): This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370): Immediate (Acute) Health Hazard

SARA 313 toxic chemical notification and release reporting: No products were found.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4): ETHYL ACRYLATE: 1000 lbs. (453.6 kg); Benzene: 10 lbs. (4.536 kg); TOLUENE: 1000 lbs. (453.6 kg); Aniline: 5000 lbs. (2268 kg); O-TOLUIDINE: 100 lbs. (45.36 kg); ARSENIC: 1 lbs. (0.4536 kg);

State Regulations

Pennsylvania RTK: ETHYL ACRYLATE: (special hazard, environmental hazard, generic environmental hazard); Benzene: (special hazard, environmental hazard, generic environmental hazard); TOLUENE: (environmental hazard, generic environmental hazard); Aniline: (environmental hazard, generic environmental hazard); O-TOLUIDINE: (special hazard, environmental hazard, generic environmental hazard); NAPHTHA: (generic environmental hazard); ARSENIC: (environmental hazard, generic environmental hazard)

Massachusetts RTK: ETHYL ACRYLATE; Distillates (petroleum), solvent-refined light paraffinic; DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC; Benzene; TOLUENE; Aniline; O-TOLUIDINE; NAPHTHA; ARSENIC

New Jersey: ETHYL ACRYLATE; Benzene; TOLUENE; Aniline; O-TOLUIDINE; NAPHTHA; ARSENIC

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: ETHYL ACRYLATE; Benzene; TOLUENE; Aniline; O-TOLUIDINE; ARSENIC

Inventories

AUSTRALIAN INVENTORY (AICS): Not listed.
CANADA INVENTORY (DSL): In compliance.
CHINA INVENTORY (IECS): Not listed.
EC INVENTORY (EINECS): Not determined.
JAPAN INVENTORY (ENCS): Not determined.
KOREA INVENTORY (ECL): Not determined.
PHILIPPINE INVENTORY (PICCS): Not determined.

16. Other information

Label Requirements

WARNING!
CAUSES EYE IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.

Hazardous Material Information System (U.S.A.)

Health	2
Fire Hazard	1
Physical Hazard	0
Personal Protection	X

National Fire Protection Association (U.S.A.)



HISTORY

Date of issue 07/08/2003.
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Prepared by Product Stewardship

Notice to Reader

NOTICE : This Material Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We are not responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the nature of the product.