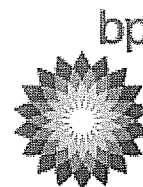


Material Safety Data Sheet



1. Chemical product and company identification

Product name BP AUTRAN SYN 295
MSDS# 0000001558
Historic MSDS#: None.
Product use Automatic transmission fluid
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

Supplier BP Lubricants North America
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 Absorbed through skin. 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.

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	235 °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 Use with adequate ventilation. 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.
Hands	Wear protective gloves if prolonged or repeated contact is likely.

Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

Physical state	Liquid.
Odor	Mild
Color	Red.
Pour Point	-60 °C
Specific Gravity	0.845
Solubility	Not available.
Viscosity	kinematic: 38 mm ² /s (38 cSt) at 40°C kinematic: 7.8 mm ² /s (7.8 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 BP.

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

International transport regulations

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	----	----			-
TDG Classification	Not regulated.	----	----			
IMDG Classification	Not regulated.	----	----			-
IATA Classification	Not regulated.	----	----			-

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): acrylic acid: 5000 lbs. (2268 kg); ETHYL ACRYLATE: 1000 lbs. (453.6 kg);

State regulations

Pennsylvania RTK: ETHYL ACRYLATE: (special hazard, environmental hazard, generic environmental hazard)
Massachusetts RTK: ETHYL ACRYLATE
New Jersey: ETHYL ACRYLATE

WARNING: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: ETHYL ACRYLATE

Inventories

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

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 05/06/2004.
Date of previous issue 05/06/2004.
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.

Voith Turbo GmbH & Co. KG, Postfach 2030, 89510 Heidenheim, Germany

BP Lubricants USA Inc.
Mr. Dwight Kramer
9300 Pulaski Highway
Baltimore, MD 21220

Tel. +1 610 380 4905
dwight.kramer@bp.com

Your Reference
Your Message
Our Reference

Phone 8245
Fax 7826
Date Jun 14, 2006
E-mail helmut.krieger@voith.com

Renewal of Oil Approval for DIWA Transmissions - Extended Drain Intervals
List of Lubricants H55.6336.3x / DIWA Service Bulletin 013

Dear Mr. Kramer,

we have evaluated your reapplication dated May-04-2006 for the product

Castrol TranSynd (G-34010)

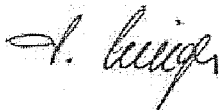
The approval for extended drain intervals is renewed.

The product remains listed in the Voith List of Lubricants H55.6336.3x /
DIWA Service Bulletin 013.

Please note that this approval is limited to 24 months. To maintain the
approval after expiration you have to reapply.
The approval can be withdrawn by Voith without stating any reason.
However any change of components of the product has to be indicated
immediately and will terminate the approval.

Kind regards,

Voith Turbo GmbH & Co. KG
Commercial Vehicle Transmissions



Application Engineering
Dr. Helmut Krieger



After-Sales Service
Norbert Vogelmann

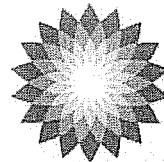
Chairman Supervisory Board
of the General Partner
Dr. Helmut Kormann

Commercial Register
Reg.-Court Heidenheim, HRA 1038
VAT Reg.No.: DE 145216193
Tax No.: 64004/08610

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Oliver Greve
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Dr. Jürgen Zeschky
Dr. Volker Zimmermann

General Partner
Voith Turbo Beteiligungs GmbH
Reg.-Court Heidenheim, HRB 1216

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Deutsche Bank AG, Heidenheim
(Bank Code No. 613 700 86) Acc.No.2050920
SWIFT-Code: DEUTDE 55 615
IBAN DE89 6137 0086 0205 092 000



BP Lubricants USA Inc.
1500 Valley Road
Wayne, NJ 07501

Voith Renews BP Autran Syn 295 and Castrol TranSynd Approvals for DIWA Transmission Extended Drain Interval Specifications

Wayne, NJ – June 2006 -- Voith Turbo, a manufacturer of commercial automatic transmissions for transit buses, has renewed its approval of BP Autran Syn 295 and Castrol TranSynd against the Voith DIWA transmission extended drain interval specifications. Voith DIWA transmissions can be found in smaller bus fleets. Both of these products are listed in the Voith List of Lubricants H55.6336.3x/DIWA Service Bulletin 013.

Attached for your information are the actual approval communications from Voith.

Contact your BP representative should you have additional questions about Voith or its approvals of BP Autran Syn 295 and Castrol TranSynd.

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BP Lubricants USA Inc.
Mr. Dwight Kramer
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Baltimore, MD 21220

Tel. +1 610 380 4905
dwight.kramer@bp.com

Your Reference
Your Message
Our Reference

Phone 8245
Fax 7826
Date Jun 14, 2006
E-mail helmut.krieger@voith.com

Renewal of Oil Approval for DIWA Transmissions - Extended Drain Intervals
List of Lubricants H55.6336.3x / DIWA Service Bulletin 013

Dear Mr. Kramer,

we have evaluated your reapplication dated May-04-2006 for the product

BP Autran Syn 295 (G-36746)

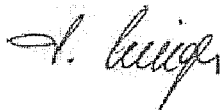
The approval for extended drain intervals is renewed.

The product remains listed in the Voith List of Lubricants H55.6336.3x /
DIWA Service Bulletin 013.

Please note that this approval is limited to 24 months. To maintain the
approval after expiration you have to reapply.
The approval can be withdrawn by Voith without stating any reason.
However any change of components of the product has to be indicated
immediately and will terminate the approval.

Kind regards,

Voith Turbo GmbH & Co. KG
Commercial Vehicle Transmissions



Application Engineering
Dr. Helmut Krieger



After-Sales Service
Norbert Vogelmann

Chairman Supervisory Board
of the General Partner
Dr. Hermut Kormann

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Dr. Jürgen Zeschky
Dr. Volker Zimmermann

General Partner
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Reg.-Court Heidenheim, HRB 1216

Commerzbank AG, Filiale Aalen
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SWIFT-Code: COBADEFF614
IBAN DE78 6144 0086 0101 1766 00
Deutsche Bank AG, Heidenheim
(Bank Code No. 613 700 86) Acc.No.2050920
SWIFT-Code: DEUTDE 33 615
IBAN DE89 6137 0086 0205 092 000

BP Autran Syn 295

PRODUCT DESCRIPTION

BP Autran Syn 295 is a fully synthetic universal shift and automatic transmission fluid designed to increase efficiency through extended drain intervals. **BP Autran Syn 295** is formulated to maintain its stability even under the most severe operating conditions.

APPLICATION

BP Autran Syn 295 can be used in a variety of applications including:

- Inter/intra-city buses, school buses
- Delivery trucks and vans
- Refuse fleets
- Emergency vehicles
- Light duty pickup trucks and passenger cars (where DEXRON®-III is approved)
- Recreational vehicles/motor homes
- On/Off-highway vehicles

FEATURES AND BENEFITS

- Superior high/low temperature performance due to high VI synthetic base fluids
- Excellent shear stability provides a stable viscosity, providing wear protection throughout the drain interval
- Excellent corrosion and foaming resistance
- Allows for extended drain intervals and extended filter change intervals reducing operating costs
- Compatible with most other automotive transmission fluids and seals
- Offers flexibility of one fluid for year-round use in all geographic locations
- Provides durable and consistent transmission shifts
- Provides excellent thermal and oxidation stability resulting in lower deposit formation

In addition, **BP Autran Syn 295** meets or exceeds the performance requirements set forth by OEMs and listed or approved under the following specifications:

- Allison TES-295 (AN-031002)
- Allison C-4 (33014203)
- DEXRON®-III (G-36746)
- ZF Transmissions
- Voith Transmission

bp



PDS 7097 11/10/05

built-in protection

TYPICAL PROPERTIES

Viscosity, ASTM D-445, cSt @40°C (104°F) @100°C (212°F)	37.7 7.35
Brookfield Viscosity, ASTM D-2983, cP@-40°C (-40°F)	8,150
Viscosity Index, ASTM D-2270	165
Specific Gravity, ASTM D-287, @ 16°C (60°F)	0.845
Flash Point, ASTM D-92, °C/°F	235/455
Fire Point, ASTM D-92, °C/°F	272/522
Pour Point, ASTM D-97, °C/°F	-60/-76
Foam Resistance Test, GM6417M @ 95 °C and 135 °C	No Foam
KRL Shear Test, % Viscosity Loss @ 20 hrs	3.8
Rust Protection, ASTM D1748 (modified)	No Rust