

SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company/undertaking

Product identifier	
Trade name or designation of the mixture	Big Twin Transmission Oil
Product code	96900
SDS number	6657
Registration number	-
Synonyms	None.
Date of first issue	27-January-2010
Version number	2,0
Revision date	24-January-2012
Supersedes date	11-January-2012
Relevant identified uses of the	substance or mixture and uses advised against
Identified uses	Not available.
Uses advised against	None known.

Details of the supplier of the safety data sheet

Bel-Ray Company, Inc. Bel-Ray Europe S.A. Avenue Louise, 304 P.O. Box 526 Farmingdale, NJ 07727 Bruxelles-Brussel, B-1050 Belgium United States of America +1 732 938 2421 +32 (0) 2 540 84 52 Europe: +32 (0) 2 201 18 87 CHEMTREC: 800-424-9300 (USA) CHEMTREC: +1 703-527-3887 (outside USA - call collect) Europe Emergency: 112

Section 2: Hazards identification

Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards Skin sensitisation	Category 1	May cause an allergic skin reaction.
Hazard summary		
Physical hazards	Not classified for physical hazards.	
Health hazards	Not classified for health hazards. However, oc may cause adverse health effects.	cupational exposure to the mixture or substance(s)
Environmental hazards	Not classified for hazards to the environment.	
Specific hazards	Not available.	
Main symptoms	Sensitisation.	
Label elements		

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Di-tert-butyl Sulphide, Polysulphides, di-tert-Bu



	▼
Signal word	Warning
Hazard statements	May cause an allergic skin reaction.
Precautionary statements	
Prevention	Keep out of reach of children. Read label before use. Avoid breathing mist or vapour. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.
Response	If medical advice is needed, have product container or label at hand. IF ON SKIN: Wash with plenty of soap and water. Specific treatment (see on this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Storage	Not available.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information	Not applicable.
Other hazards	Not assigned.

Section 3: Composition/information on ingredients

Mixture

General information

			%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Note
Distillates (petroleum), s heavy paraffinic	solvent-re	efined	0 - < 100	64741-88-4 265-090-8	-	649-454-00-7	#
Classification:	DSD:	-					
	CLP:	-					
Residual Oils (petroleum Solvent-refined	1),		0 - < 100	64742-01-4 265-101-6	-	649-459-00-4	#
Classification:	DSD:	-					
	CLP:	-					
Amines, C12-14-alkyl, Re Products With Hexanol, Oxide (p2o5), Phosphore (p2s5) And Propylene O	Phospho us Sulfide		1 - < 3	91745-46-9 294-716-2	-	-	
Classification:	DSD:	N;R5	1-53				
Classification:	DSD: CLP:		1-53 tic Chronic	4;H413			
	CLP:			4;H413 68937-96-2 273-103-3		-	
	CLP:	Aqua	tic Chronic 1 - < 3	68937-96-2	<u>-</u>	-	
Polysulphides, di-tert-Bu	CLP:	Aqua R43,	tic Chronic 1 - < 3 R53	68937-96-2	- 4;H413	-	
Polysulphides, di-tert-Bu	CLP: DSD: CLP: v reporta 22/2008. EC. vorkplace	Aqua R43, Skin : ible	tic Chronic 1 - < 3 R53 Sens. 1;H31 3 - < 5 sure limit(s)	68937-96-2 273-103-3 17, Aquatic Chronic -	- 4;H413	-	
Polysulphides, di-tert-Bu Classification: Other components belov levels CLP: Regulation No. 127 DSD: Directive 67/548/E #: This substance has w	CLP: DSD: CLP: v reporta 2/2008. EC. vorkplace mulative	Aqua R43, Skin : ible e expos and to	tic Chronic 1 - < 3 R53 Sens. 1;H31 3 - < 5 sure limit(s) pxic substar	68937-96-2 273-103-3 17, Aquatic Chronic -	- 4;H413	-	

Section 4: First aid measures

Section 4: First aid measure	ures
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Call a physician if symptoms develop or persist. Wash contaminated clothing before reuse.
Description of first aid measure	es
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and plenty of water. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Do not induce vomiting. If ingestion of a large amount does occur, call a poison control centre immediately. Never give liquid to an unconscious person.
Most important symptoms and effects, both acute and delayed	May cause allergic skin reaction.
Indication of any immediate medical attention and special treatment needed	Not available.
Section 5: Firefighting me	easures
General fire hazards	Not available.
Extinguishing media	
Suitable extinguishing	Water fog Foam Dry chemical powder. Carbon dioxide (CO2)

Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the substance or mixture	Not available.
Advice for firefighters	
Special protective equipment for firefighters	Wear suitable protective equipment.
Special firefighting procedures	Not available.

Section 6: Accidental release measures

incompatibilities

Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid inhalation of vapors or mists. In case of spills, beware of slippery floors and surfaces.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods and material for containment and cleaning up	This product is miscible in water.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills in original containers for re-use.
Reference to other sections	For personal protection, see section 8. For waste disposal, see section 13.
Section 7: Handling and	storage
Precautions for safe handling	Avoid breathing mist or vapour. Avoid contact with skin. Avoid prolonged exposure.
Conditions for safe storage, including any	Room temperature - normal conditions. Keep container tightly closed. Keep out of the reach of children.

Section 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

Austria

No exposure limits noted for the ingredient(s).

Components	Туре	Value	Form	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	

Bulgaria. OELs. Regulation No 13 of Ministry of Labor & Social Policy, with Ministry of Health, on protection of workers related to exposure to chemical agents at work

Components	Туре	Value		
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3		
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3		
Cyprus No exposure limits noted for the in	gredient(s).			
Czech Republic. OELs. Governm			_	
Components	Туре	Value	Form	

components	Type	value	TOTIL	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	Ceiling	10 mg/m3	Aerosol	
	TWA	5 mg/m3	Aerosol	
Denmark. Exposure Limit Values				
Components	Туре	Value	Form	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m3	Mist.	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TLV	1 mg/m3	Mist.	
Estonia	adiant(a)			

No exposure limits noted for the ingredient(s).

Finland. Workplace Exposure Limits

Finland. Workplace Exposure Li				
Components	Туре	Value	Form	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3	Mist.	
France No exposure limits noted for the inc	redient(s).			
Germany No exposure limits noted for the ing	redient(s).			
Germany - TRGS 900 No exposure limits noted for the inc	redient(s).			
Greece. OELs (Decree No. 90/1	999, as amended)			
Components	Туре	Value	Form	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3	Mist.	

Hungary. OELs. Joint Decree on Components	Type	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	Ceiling	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	Ceiling	5 mg/m3	Mist.
Iceland. OELs. Regulation 154/			
Components	Туре	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	1 mg/m3	Mist.
Ireland. Occupational Exposure	Limits		
Components	Туре	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	0,2 mg/m3	Inhalable fraction.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	0,2 mg/m3	Inhalable fraction.
Italy. OELs			
Components	Туре	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Inhalable fraction.
Latvia No exposure limits noted for the ing	redient(s).		

Lithuania. OELs. Occupational Exposure Limit Values for Hazardous Chemical Substance Concentration, General Requirements (No. 645/169)

Components	Туре	Value	Form	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	3 mg/m3	Fume and mist.	_
	TWA	1 mg/m3	Fume and mist.	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	3 mg/m3	Fume and mist.	
. ,	TWA	1 mg/m3	Fume and mist.	

Luxembourg

No exposure limits noted for the ingredient(s).

Malta

No exposure limits noted for the ingredient(s).

Netherlands. OELs (binding)

Components	Туре	Value	Form	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3	Mist.	

Norway. Administrative Norms for Contaminants in the Workplace

Components	Туре	Value	Form	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m3	Mist.	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TLV	1 mg/m3	Mist.	

Components	Туре	Value	Form
Distillates (petroleum), solvent-refined heavy	STEL	10 mg/m3	Aerosol
oaraffinic (64741-88-4)	TWA	5 mg/m3	Aerosol
Residual Oils (petroleum),	STEL	10 mg/m3	Aerosol
Solvent-refined (64742-01-4)		5	
	TWA	5 mg/m3	Aerosol
Portugal. VLEs. Norm on occupa			
Components	Туре	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3	Aerosol
· · · ·	TWA	5 mg/m3	Aerosol
Residual Oils (petroleum), Solvent-refined	STEL	10 mg/m3	Aerosol
(64742-01-4)	TWA	5 mg/m3	Aerosol
Romania. OELs. Protection of w		-	
Components	Туре	Value	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Slovakia No exposure limits noted for the ing	redient(s).	-	
Slovenia No exposure limits noted for the ing	redient(s).		
Spain. Occupational Exposure L	imits		
Components	Туре	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Sweden. Occupational Exposure	e Limit Values		
Components	Туре	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
Switzerland No exposure limits noted for the ing	redient(s).		
United Kingdom			

No exposure limits noted for the ingredient(s).

EU, 91/322/EEC, 2000/39/EC, 2006/15/EC

No exposure limits noted for the ingredient(s).

EU, 91/322/EEC, 2000/39/EC, 2006/15/EC

No biological exposure limits noted for the ingredient(s).

Finland

No biological exposure limits noted for the ingredient(s).

France

No biological exposure limits noted for the ingredient(s).

Luxembourg

No biological exposure limits noted for the ingredient(s).

Spain

No biological exposure limits noted for the ingredient(s).

United Kingdom

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures	Follow standard monitoring procedures.		
DNEL	Not available.		
PNEC	Not available.		
Exposure controls			
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide adequate general and local exhaust ventilation.		
Individual protection measures, such as personal protective equipment			
General information	Applicable for industrial settings only: Use personal protective equipment as required.		
Eye/face protection	Not normally needed.		
Skin protection			
- Hand protection	Wear protective gloves.		
- Other	Wear suitable protective clothing. Wear protective gloves. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.		
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.		
Thermal hazards	Not available.		
Hygiene measures	Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practices.		
Environmental exposure controls	Not available.		

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Oily.
Physical state	Liquid.
Form	Liquid.
Colour	Red.
Odour	Petroleum
Odour threshold	Not available.
рН	Not applicable.
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	343 °C (649,4 °F)
Flash point	246 °C (474,8 °F) Pensky-Martens Closed Cup
Auto-ignition temperature	260 °C (500 °F) estimated
Flammability (solid, gas)	Not available.

Flammability limit - lower (%)	Not available.		
Flammability limit - upper (%)	Not available.		
Oxidising properties	Not applicable.		
Explosive properties	Not applicable.		
Explosive limit	Not applicable.		
Vapour pressure	0,13 hPa estimated		
Density	894 kg/m3		
Vapour density	Not applicable.		
Evaporation rate	Not applicable.		
Relative density	Not available.		
Solubility (water)	Negligible		
Solubility (other)	Oil		
Information on basic physical	and chemical properties		
Partition coefficient (n-octanol/water)	Not available.		
Decomposition temperature	Not available.		
Bulk density	Not applicable.		
Pour point	Not applicable.		
Viscosity	346,5 cSt ASTM D445		
Viscosity temperature	40 °C (104 °F)		
Kinematic viscosity	346,5 cSt ASTM D445		
Kinematic viscosity temp	40 °C (104 °F)		
VOC (Weight %)	0 % estimated		
Percent volatile	0 % estimated		
Other data			
Flammability class	Combustible IIIB estimated		
Specific gravity	0,89		
Other information	No relevant additional information available.		
Section 10: Stability and reactivity			
Reactivity	None known. Strong oxidizing agents.		
Chemical stability	Material is stable under normal conditions.		
Possibility of hazardous reactions	Not available.		
Conditions to avoid	Avoid temperatures exceeding the flash point.		
Incompatible materials	None known.		

Section 11: Toxicological information

Hazardous decomposition

products

General information	Not available.	
Information on likely rou	tes of exposure	
Ingestion	Not available.	
Inhalation	Not available.	
Skin contact	May cause an allergic skin reaction.	
Eye contact	Not available.	
Symptoms	Not available.	
Information on toxicological effects		
Acute toxicity	Not available.	
Product	Test results	

Toxic gas. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

Big Twin Transmission Oil (Mixture)

Acute Dermal LD50 Rabbit: 2260,3958 mg/kg estimated

Test results

* Estimates for product may be based on additional component data not shown.

1 5	
Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Not available.
Respiratory sensitisation	Not available.
Skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.
Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
Mixture versus substance information	Not available.
Other information	Not available.

Section 12: Ecological information

Toxicity

Product	Test results
Big Twin Transmission Oil (Mixture)	LC50 Fish: 21797,5 mg/l 96 hours estimated

* Estimates for product may be based on additional component data not shown.

Estimates for product may	be based on additional component data not shown.			
Persistence and degradability	No data is available on the degradability of this product.			
Bioaccumulative potential	Not available.			
Mobility	Not available.			
Environmental fate - Partition coefficient	Not available.			
Mobility in soil	Not available.			
Results of PBT and vPvB assessment	Not available.			
Other adverse effects	Not available.			
Section 13: Disposal considerations				
Waste treatment methods				
Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).			
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.			
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.			
Disposal	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of			

methods/information contents/container in accordance with local/regional/national/international regulations.

Section 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according
to Annex II of MARPOLNo information available.73/78 and the IBC Code

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

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EU regulations		
Other regulations	The product is classified and labelled in accordance with EC directives or respective national laws This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.	
National regulations	Not available.	
Chemical safety assessment	No Chemical Safety Assessment has been carried out.	
Section 16: Other information		
List of abbreviations	Not available.	
References	Not available.	
Information on evaluation method leading to the classification of mixture	Not available.	
Full text of any statements or R-phrases and H-phrases under Sections 2 to 15	 R43 May cause sensitization by skin contact. R51 Toxic to aquatic organisms. R53 May cause long-term adverse effects in the aquatic environment. H317 - May cause an allergic skin reaction. H413 - May cause long lasting harmful effects to aquatic life. 	
Revision information	Not available.	
Training information	Not available.	
Disclaimer	Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.	
Issue date	24-January-2012	
Revision date	24-January-2012	
Print date	24-January-2012	
Inventory status		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compor	nents of this product comply with the inventory requirements administered by the	ne governing country(s)