

Page: 1 Revision Date: 05/25/2010

Print Date: 1/3/2011

MSDS Number: 000000149117

Version: 1.2

VALVOLINE® CVT AUTOMATIC TRANSMISSION FLUID 705233

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ashland Regulatory Information Number 1-800-325-3751 P.O. Box 2219 Telephone 614-790-3333

Columbus, OH 43216 Emergency telephone 1-800-ASHLAND (1-800-274-

5263)

Product name VALVOLINE® CVT AUTOMATIC TRANSMISSION FLUID

Product code 705233 Product Use Description No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, clear

CAUTION! PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE

IRRITATION.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eve contact

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Skin contact

May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.



Page: 2 Revision Date: 05/25/2010

Print Date: 1/3/2011

MSDS Number: 000000149117

Version: 1.2

VALVOLINE® CVT AUTOMATIC TRANSMISSION FLUID 705233

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)

Target Organs

No data

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

There are no data available for assessing risk to the fetus from maternal exposure to this material.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No.	Concentration	
Distillates (Petroleum), Hydrotreated Heavy	64742-54-7	>=80-<90%	
Paraffinic			
POLYALKYLMETHACRYLATE		>=5-<10%	

4. FIRST AID MEASURES



Page: 3 Revision Date: 05/25/2010

Print Date: 1/3/2011

MSDS Number: 000000149117

Version: 1.2

VALVOLINE® CVT AUTOMATIC TRANSMISSION FLUID 705233

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, Dry chemical, Carbon dioxide (CO2)

Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrocarbons, Aldehydes



Page: 4 Revision Date: 05/25/2010

Print Date: 1/3/2011

MSDS Number: 000000149117

Version: 1.2

VALVOLINE® CVT AUTOMATIC TRANSMISSION FLUID 705233

Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Other information

Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Store in a cool, dry, ventilated area.



Page: 5 Revision Date: 05/25/2010

Print Date: 1/3/2011

MSDS Number: 000000149117

Version: 1.2

VALVOLINE® CVT AUTOMATIC TRANSMISSION FLUID 705233

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves (consult your safety equipment supplier).

Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection

Respiratory protection is not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state liquid

Form no data available

Colour clear

Odour no data available



Page: 6 Revision Date: 05/25/2010

Print Date: 1/3/2011

MSDS Number: 000000149117

Version: 1.2

VALVOLINE® CVT AUTOMATIC TRANSMISSION FLUID 705233

Boiling point/boiling range no data available Melting point/range no data available **Sublimation point** no data available no data available рH

Flash point (>)110.00 °C

Calculated Flash Point **Ignition temperature** no data available **Evaporation rate** no data available Lower explosion limit/Upper explosion limit no data available Particle size no data available

Vapour pressure 1.000 hPa Calculated Vapor Pressure

no data available

Relative vapour density no data available

0.8436 g/cm3 @ 77 °F / 25 °C **Density**

Bulk density No data

Water solubility no data available **Solubility** no data available Partition coefficient: n-octanol/water no data available log Pow no data available **Autoignition temperature** no data available Viscosity, dynamic no data available Viscosity, kinematic no data available **Solids in Solution** no data available **Decomposition temperature** no data available **Burning number** no data available **Dust explosion constant** no data available

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

excessive heat

Minimum ignition energy

Incompatible products

Strong oxidizing agents

Hazardous decomposition products



Page: 7 Revision Date: 05/25/2010

Print Date: 1/3/2011

MSDS Number: 000000149117

Version: 1.2

VALVOLINE® CVT AUTOMATIC TRANSMISSION FLUID 705233

Aldehydes, carbon dioxide and carbon monoxide

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Distillates (Petroleum), Hydrotreated Heavy Paraffinic : LD 50 Rat: > 15 g/kg

POLYALKYLMETHACRYLATE : no data available

Acute inhalation toxicity

Distillates (Petroleum), Hydrotreated Heavy Paraffinic : no data available

POLYALKYLMETHACRYLATE : no data available

Acute dermal toxicity

Distillates (Petroleum), Hydrotreated Heavy Paraffinic : LD 50 Rabbit: > 5 g/kg

POLYALKYLMETHACRYLATE : no data available

12. ECOLOGICAL INFORMATION

Biodegradability

Distillates (Petroleum), Hydrotreated Heavy Paraffinic : no data available

POLYALKYLMETHACRYLATE : no data available

Bioaccumulation

Distillates (Petroleum), Hydrotreated Heavy Paraffinic : no data available

POLYALKYLMETHACRYLATE : no data available



Page: 8 Revision Date: 05/25/2010

Print Date: 1/3/2011

MSDS Number: 000000149117

Version: 1.2

VALVOLINE® CVT AUTOMATIC TRANSMISSION FLUID 705233

Ecotoxicity effects

Toxicity to fish

Distillates (Petroleum), Hydrotreated Heavy Paraffinic : no data available

POLYALKYLMETHACRYLATE : no data available

Toxicity to daphnia and other aquatic invertebrates.

Distillates (Petroleum), Hydrotreated Heavy Paraffinic : no data available

POLYALKYLMETHACRYLATE : no data available

Toxicity to algae

Distillates (Petroleum), Hydrotreated Heavy Paraffinic : no data available

POLYALKYLMETHACRYLATE : no data available

Toxicity to bacteria

Distillates (Petroleum), Hydrotreated Heavy Paraffinic : no data available

POLYALKYLMETHACRYLATE : no data available

Biochemical Oxygen Demand (BOD)

Distillates (Petroleum), Hydrotreated Heavy Paraffinic : no data available

POLYALKYLMETHACRYLATE : no data available

Chemical Oxygen Demand (COD)

Distillates (Petroleum), Hydrotreated Heavy Paraffinic : no data available

POLYALKYLMETHACRYLATE : no data available

Additional ecological information

Distillates (Petroleum), Hydrotreated Heavy Paraffinic : no data available



Page: 9 Revision Date: 05/25/2010

Print Date: 1/3/2011

MSDS Number: 000000149117

Version: 1.2

VALVOLINE® CVT AUTOMATIC TRANSMISSION FLUID 705233

POLYALKYLMETHACRYLATE : no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

REGULATION

I	D	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
N	IUMBER		CLASS	HAZARDS	GROUP	POLLUTANT
						/ LTD. QTY.

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods



Page: 10 Revision Date: 05/25/2010

Print Date: 1/3/2011

MSDS Number: 000000149117

Version: 1.2

VALVOLINE® CVT AUTOMATIC TRANSMISSION FLUID 705233

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - ROAD

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause cancer.	TRIMETHYL PHOSPHATE 2-NAPHTHALENAMINE ARSENIC CADMIUM LEAD
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.	CADMIUM LEAD

SARA Hazard Classification

No SARA Hazards

New Jersey RTK Label Information

Distillates (Petroleum), Hydrotreated Heavy Paraffinic LUBRICANT ADDITIVE POLYALKYLMETHACRYLATE LUBRICANT ADDITIVE

64742-54-7

Pennsylvania RTK Label Information

Distillates (Petroleum), Hydrotreated Heavy Paraffinic

64742-54-7



Page: 11 Revision Date: 05/25/2010

Print Date: 1/3/2011

MSDS Number: 000000149117

Version: 1.2

VALVOLINE® CVT AUTOMATIC TRANSMISSION FLUID 705233

LUBRICANT ADDITIVE POLYALKYLMETHACRYLATE

Notification status

US. Toxic Substances Control Act y (positive listing) Australia. Industrial Chemical (Notification and Assessment) n (Negative listing) Act Canada. Canadian Environmental Protection Act (CEPA). y (positive listing) Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133) Japan. Kashin-Hou Law List n (Negative listing) Korea. Toxic Chemical Control Law (TCCL) List y (positive listing) Philippines. The Toxic Substances and Hazardous and Nuclear n (Negative listing) Waste Control Act China. Inventory of Existing Chemical Substances n (Negative listing) New Zealand. Inventory of Chemicals (NZIoC), as published n (Negative listing) by ERMA New Zealand

	HMIS	NFPA
Health	1	1
Flammability	1	1
Physical hazards	0	
Instability		0
Specific Hazard		

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).