

Valvoline™ WATER REMOVER
602247

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 number	1-800-ASHLAND (1-800-274-5263)
Product name	Valvoline™ WATER REMOVER	
Product code	602247	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, colourless

WARNING! FLAMMABLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.

Potential Health Effects

Exposure routes

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

Eye contact

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin contact

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

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during

Valvoline™ WATER REMOVER
602247

swallowing or vomiting. This results in lung inflammation and other lung injury. Exposure causes severe irritation of the gastrointestinal tract.

Inhalation

Breathing of vapor or mist is possible. 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), Kidney

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), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), Lowered blood pressure, mild, temporary changes in the liver, effects on heart rate, respiratory depression (slowing of the breathing rate), Lack of coordination, confusion, lung edema (fluid buildup in the lung tissue), kidney damage, coma

Target Organs

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans., Breathing isopropanol vapors has caused damage to the lining of the middle ear in experimental animals. The relevance of this finding to humans is uncertain., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects

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

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

Valvoline™ WATER REMOVER
602247

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / Trade Secret No.	Concentration
ISOPROPANOL	67-63-0	>=90-<=100%

4. FIRST AID MEASURES

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. Wash exposed area with soap and water. If 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: Administration of high doses of isopropanol in combination with known hepatotoxic chemicals resulted in enhanced liver toxicity in experimental animals.

Treatment: No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Valvoline™ WATER REMOVER
602247

Dry chemical, Carbon dioxide (CO₂), Water spray

Hazardous combustion products

carbon dioxide and carbon monoxide

Precautions for fire-fighting

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. 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

Flammable Liquid Class IB

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. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

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. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Other information

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

Valvoline™ WATER REMOVER
602247

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. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

Storage

Store in a cool, dry, ventilated area, away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

ISOPROPANOL		67-63-0
ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	400 ppm
NIOSH	Recommended exposure limit (REL):	400 ppm
NIOSH	Recommended exposure limit (REL):	980 mg/m3
NIOSH	Short term exposure limit	500 ppm
NIOSH	Short term exposure limit	1,225 mg/m3
OSHA Z1	Permissible exposure limit	400 ppm
OSHA Z1	Permissible exposure limit	980 mg/m3

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

Valvoline™ WATER REMOVER
602247

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

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

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).

Respiratory protection

Respiratory protection is not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Colour	colourless
Odour	alcohol-like
Boiling point/boiling range	180.5 °F / 82.5 °C @ 1,013.23 hPa Calculated Phase Transition Liquid/Gas
Flash point	50 °F / 10 °C Tag closed cup
Lower explosion limit/Upper explosion limit	2.5 %(V) / 12 %(V)
Vapour pressure	60.527 hPa @ 77 °F / 25 °C Calculated Vapor Pressure
Density	0.790 g/cm ³ @ 77 °F / 25 °C

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Valvoline™ WATER REMOVER
602247

Heat, flames and sparks.

Incompatible products

Acids, Aldehydes, alkalis, Amines, Ethylene oxide, halogenated hydrocarbons, halogens, isocyanates, Strong oxidizing agents, Do not use with aluminum equipment at temperatures above 49C or 120 degrees F.

Hazardous decomposition products

carbon dioxide and carbon monoxide

Hazardous reactions

Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Acute oral toxicity - : no data available
Product

Acute oral toxicity - Components

ISOPROPANOL : LD 50: 5.84 g/kg Species: Rat

Acute inhalation toxicity

Acute inhalation toxicity - : no data available
Product

Acute inhalation toxicity - Components

ISOPROPANOL : LC 50: 16000 ppm Exposure time: 4 h Species: Rat

Acute dermal toxicity

Acute dermal toxicity - : no data available
Product

Acute toxicity (other routes of administration)

Acute toxicity (other : no data available

Valvoline™ WATER REMOVER
602247

routes of administration)

12. ECOLOGICAL INFORMATION

Biodegradability

Biodegradability - Product : no data available

Bioaccumulation

Bioaccumulation - Product : no data available

Ecotoxicity effects

Toxicity to fish

Toxicity to fish - Product : no data available

Toxicity to fish - Components

ISOPROPANOL : LC 50: 5,770 - 7,450 mg/l
Exposure time: 96 h
Species: Fathead minnow (*Pimephales promelas*)
Method: Flow through
Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates

Toxicity to daphnia and other aquatic invertebrates
- Product : no data available

Toxicity to daphnia and other aquatic invertebrates - Components

ISOPROPANOL : LC 50: > 10,000 mg/l
Exposure time: 24 h
Species: Water flea (*Daphnia magna*)
Method: Static
Test Type: static test
Remarks: Mortality

Toxicity to algae

Valvoline™ WATER REMOVER
602247

Toxicity to algae - Product	: no data available
--------------------------------	---------------------

Toxicity to bacteria

Toxicity to bacteria - Product	: no data available
-----------------------------------	---------------------

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
-----------	----------------------	---------------	--------------------	---------------	------------------------------

U.S. DOT - ROAD

	ORM-D, CONSUMER COMMODITY	ORM			
--	---------------------------	-----	--	--	--

U.S. DOT - RAIL

	ORM-D, CONSUMER COMMODITY	ORM			
--	---------------------------	-----	--	--	--

U.S. DOT - INLAND WATERWAYS

	ORM-D, CONSUMER COMMODITY	ORM			
--	---------------------------	-----	--	--	--

TRANSPORT CANADA - ROAD

UN 1219	ISOPROPANOL SOLUTION	3		II	LIMITED QUANTITY
---------	----------------------	---	--	----	------------------

TRANSPORT CANADA - RAIL

Valvoline™ WATER REMOVER
602247

UN	1219	ISOPROPANOL SOLUTION	3	II	LIMITED QUANTITY
----	------	----------------------	---	----	------------------

TRANSPORT CANADA - INLAND WATERWAYS

UN	1219	ISOPROPANOL SOLUTION	3	II	LIMITED QUANTITY
----	------	----------------------	---	----	------------------

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1219	ISOPROPANOL SOLUTION	3	II	LIMITED QUANTITY
----	------	----------------------	---	----	------------------

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1219	Isopropanol SOLUTION	3	II	
----	------	----------------------	---	----	--

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1219	Isopropanol SOLUTION	3	II	
----	------	----------------------	---	----	--

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	1219	ISOPROPANOL SOLUTION	3	II	
----	------	----------------------	---	----	--

*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

Proposition 65 warnings are not required for this product based on the results of a risk assessment.

SARA Hazard Classification

SARA 311/312 Classification

Fire Hazard

Acute Health Hazard

SARA 313 Component(s)

Valvoline™ WATER REMOVER
602247

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

New Jersey RTK Label Information

ISOPROPANOL	67-63-0
-------------	---------

Pennsylvania RTK Label Information

ISOPROPANOL	67-63-0
-------------	---------

Notification status

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

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302)	227790 lbs
--------------------------------------------------	------------

Reportable quantity-Components

XYLENE	1330-20-7	100 lbs
--------	-----------	---------

	HMIS	NFPA
Health	1	1
Flammability	3	3
Physical hazards	0	
Instability		0
Specific Hazard	--	--

16. OTHER INFORMATION

ASHLAND®

SAFETY DATA SHEET

Page: 12

Revision Date: 02/11/2013

Print Date: 3/6/2014

MSDS Number: R0199342

Version: 1.11

Valvoline™ WATER REMOVER
602247

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).