Material Safety Data Sheet

MANUFACTURER:
Tru-Test Manufacturing Company
201 Jandus Road
Cary, IL 60013

EMERGENCY TELEPHONE NUMBER:	TECHNICAL INFORMATION:	HMIS:
(800)228-5635 ext 017 or	(847)639-5383	H [1]
(612)221-3999 ext 017	DATE: December 14, 1996	F [2]
	SUPERSEDES: June 4, 1993	R [0]

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT CODE: OST - 3, 5, 7, 9, 10, 11, LT, N

PRODUCT NAME: Woodsman Semi-Transparent Oil Stain

PRODUCT CLASS: Exterior Semi-Transparent Oil Base Stain

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NUMBER	WT.%	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE
			TLV	PEL	mmHg@20°C
Mineral Spirits	64742-47-8	60 - 70	100ppm	500ppm	2.6
(S)Xylene	1330-20-7	.8 - 2	100ppm	100ppm	14.0
Carbon Black(1)	1333-86-4	.1 - .2	3.5mg/m^3	3.5mg/m^3	17.0

(S) - This ingredient is subject to the reporting requirements of Section 313 SARA Title III.
(1) - OST-3 only
NA - Not applicable. NE - Not established.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA Class II DOT Combustible Liquid FLASH POINT: 105°F LEL: 0.9

EXTINGUISHING MEDIA:
[X] FOAM [ ] ALCOHOL FOAM [X] CO_2 [X] DRY CHEMICAL [X] WATER FOG [ ] OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode when exposed to extreme heat. Isolate from heat, sparks and open flame.

SPECIAL FIRE FIGHTING PROCEDURES: Use a self-contained breathing apparatus with full face mask in a positive pressure demand mode. Treat as a volatile liquid fire. Water spray may be ineffective. If water spray is used, fog nozzles are preferable. Water may be used to cool sealed containers to prevent pressure build-up and possible explosion or auto-ignition when exposed to the heat of a fire.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and unidentified organic compounds.

SECTION 5 - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

INHALATION: Exposure to large amounts may cause moderate irritation to the lungs, nose, and throat. May also cause dizziness, nausea or fatigue.
SKIN CONTACT: Exposure may cause mild irritation. Prolonged exposure may cause drying and cracking.
EYE CONTACT: Causes irritation, including redness, stinging and watering.
INGESTION: Moderately toxic in large amounts. Could cause drowsiness, nausea or headache.

CARCINOGENICITY: This product contains carbon black (See Section 2). Carbon black is classified by IARC (but not by NTP or OSHA) as a possible carcinogen for humans (2B) based on laboratory animal studies.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting skin, eye and respiratory disorders may be aggravated by exposure to this product.

PRIMARY ROUTE(S) OF ENTRY: [X] DERMAL [X] INHALATION [ ] INGESTION

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Use artificial respiration if necessary. Seek medical attention.
SKIN CONTACT: Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before reuse.
EYE CONTACT: Immediately flush eyes with large amounts of water. If symptoms persist, seek medical attention.
INGESTION: Give 1 or 2 glasses of water to dilute. Do not induce vomiting. Get medical attention immediately.

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Contain spill, absorb liquid with clay, sand or floor absorbent. Prevent run-off to sewers, streams or other bodies of water.

WASTE DISPOSAL METHOD: Observe all federal, state and local regulations regarding proper disposal.

SECTION 8 - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: NIOSH/MSHA jointly approved air purifying respirator if TLV limits are exceeded. Approved mechanical filter to remove solid airborne particles of overspray during application.

VENTILATION: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV.

PROTECTIVE CLOTHING: Wear safety glasses with side shields to prevent eye contact. Contact lenses should not be worn. Use solvent resistant gloves to avoid prolonged contact.

OTHER PROTECTIVE EQUIPMENT: Eyewash fountains and safety showers in the event of an accident.

HYGIENIC PRACTICES: Wash hands thoroughly after use, and before eating, drinking or smoking.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep liquid and vapor away from heat, sparks, and open flame. To avoid spontaneous combustion during temporary storage, soak soiled rags and waste immediately after use in water-filled, closed metal container. Close container after each use. Store in a cool dry area.

OTHER PRECAUTIONS: CAUTION: Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Containers should be grounded when pouring. Avoid free fall of more than 2 - 3 inches when pouring.

WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Material Safety Data Sheet

MANUFACTURER:
True Value Manufacturing
201 Jandus Road
Cary, IL 60013

EMERGENCY TELEPHONE NUMBER:	TECHNICAL INFORMATION:	HMIS:
(866)257-3981	(847)639-5383	H [1]
DATE: April 16, 2013	SUPERSEDES: January 22, 2013	F [0]
		R [0]

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT CODE: HPX - 1, 9, 14, 17, D, N, P, T
PRODUCT NAME: WeatherAll Ultra Premium Acrylic Latex Flat House Paint
PRODUCT CLASS: Exterior Flat Latex Paint

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NUMBER	WT.%	OCCUPATIONAL EXPOSURE LIMITS TLV	PEL	VAPOR PRESSURE mmHg@20°C
(S)Ethylene Glycol(1)	107-21-1	.9 - 2	50ppm	50ppm	.1
Carbon Black(2)	1333-86-4	.1 - 2.5	3.5mg/m^3	3.5mg/m^3	NA
Potassium Aluminum Silicate(3)	12001-26-2	1 – 3	3 mg/m^3	3 mg/m^3	NA
Red Iron Oxide (4)	1309-37-1	3 – 9	5mg/m^3	5mg/m^3	NA
Yellow Iron Oxide (5)	51274-00-1	1 – 2	5mg/m^3	5mg/m^3	NA
Titanium Dioxide (6)	13463-67-7	5 – 24	10mg/m^3	15mg/m^3	NA
Amorphous Silica (7)	61790-53-2	1 – 2	6mg/m^3	10mg/m^3	NA

(S) - This ingredient is subject to the reporting requirements of Section 313 SARA Title III.
(1) - HPX- 1,9,17,D,N,P,T only. (2) In HPX – 1, 14, 17 only. (3) – In HPX-14, 17,D,N,P only (4) – In HPX-1,17 only.
(5) – In HPX-17 only. (6) – In HPX-9, D, P, T only. (7) – In HPX-14, D only.
NA - Not applicable. NE - Not established.

SECTION 3 - PHYSICAL DATA

VAPOR DENSITY: [ ] HEAVIER [X] LIGHTER THAN AIR BOILING RANGE: 210-220°F
EVAPORATION RATE: [ ] FASTER [X] SLOWER THAN ETHER 60 - 70% VOLATILE VOLUME
APPEARANCE/ODOR: Thick liquid/slight ammonia DENSITY: 9.7 – 11.7 Wt(lbs)/Gal
VOLATILE ORGANIC COMPOUND(VOC): Less than 50 gm/l 0.42 lbs/gal

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION OSHA N/A FLASH POINT N/A LEL N/A
DOT Not Regulated

EXTINGUISHING MEDIA:
[X] FOAM [ ] ALCOHOL FOAM [X] CO_2 [X] DRY CHEMICAL [X] WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode when exposed to extreme heat.

SPECIAL FIRE FIGHTING PROCEDURES: Use a self-contained breathing apparatus with full face mask in a positive pressure demand mode. Water may be used to cool containers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide.

SECTION 5 - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:
INHALATION: Vapors or spray mists may be irritating to eyes, nose or throat.
SKIN CONTACT: Prolonged or repeated contact may cause irritation.
EYE CONTACT: Direct eye contact will result in mild irritation.
INGESTION: Ingestion of large quantities may result in nausea or other gastrointestinal irritation.

CARCINOGENICITY: This product contains carbon black and titanium dioxide (See Section 2). Carbon black and titanium dioxide have been classified by IARC (but not NTP or OSHA) as a possible carcinogen for humans (2B) from lab animal studies.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None known to True Value Manufacturing.

PRIMARY ROUTE(S) OF ENTRY: [X] DERMAL [X] INHALATION [ ] INGESTION

EMERGENCY AND FIRST AID PROCEDURES:
INHALATION: Remove to fresh air.
SKIN CONTACT: Remove contaminated clothing. Wash affected area. Launder clothes before reuse.
EYE CONTACT: Flush immediately with large amounts of water. Contact physician if irritation persists.
INGESTION: Give 1 or 2 glasses of water to dilute. Do not induce vomiting. Call physician immediately.

SECTION 6 - REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITY (Materials to avoid): None known

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain spill. Absorb liquid with clay, sand or floor absorbent. Prevent run-off to sewers, streams or other bodies of water.
WASTE DISPOSAL METHOD: Observe all federal, state and local regulations regarding proper disposal.

SECTION 8 - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: None required when brushed or rolled if good ventilation is maintained. During spray application, an approved mechanical filter respirator should be used to remove airborne particles of overspray.
VENTILATION: Sufficient ventilation should be provided to keep air contaminant concentration below applicable OSHA or ACGIH limits.

PROTECTIVE CLOTHING: Safety glasses with splash guards to prevent contact.
OTHER PROTECTIVE EQUIPMENT: Eyewash facility and safety shower in the event of a spill.
HYGIENIC PRACTICES: Wash hands before eating, drinking or smoking.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep out of reach of children. Store in a cool dry area. Close container after each use.
OTHER PRECAUTIONS: Keep from freezing. Avoid prolonged skin contact. Do not take internally.

WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product ID:	**045.0011287.007**
Product Name:	PROF INT NEW CONS PRIM
Product Use:	Paint product.
Print date:	10/Jul/2013
Revision Date:	11/Jun/2013

Company Identification
The Valspar Corporation - Architectural Coatings Division
1191 Wheeling Road
Wheeling, IL 60090

Manufacturer's Phone:	1-847-520-8580
24-Hour Medical Emergency Phone:	1-888-345-5732

2. HAZARDS IDENTIFICATION

Primary Routes of Exposure:
Inhalation
Ingestion
Skin absorption

Eye Contact:

- Moderate eye irritation

Skin Contact:

- Causes mild skin irritation.

Ingestion:
None known.

Inhalation:

- May cause irritation of respiratory tract.

Target Organ and Other Health Effects:
- Kidney injury may occur.

This product contains ingredients that may contribute to the following potential chronic health effects:
- Prolonged exposure to respirable crystalline quartz silica may cause delayed chronic injury (silicosis).
- Chronic exposure may cause permanent damage of health.
- Prolonged exposure over TLV may produce pneumoconiosis.

Carcinogens:
- Possible cancer hazard. Contains material which may cause cancer based on animal data.
- Cancer hazard. Contains material which can cause cancer.

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
CLAY 66402-68-4	15 - 20	Ceramic materials and wares, chemicals
SILICA 14808-60-7	5 - 10	QUARTZ (Si02)
TITANIUM DIOXIDE 13463-67-7	5 - 10	Titanium dioxide
SILICA 14464-46-1	1 - 5	Silica, cristobalite

If this section is blank there are no hazardous components per OSHA guidelines.

4. FIRST AID MEASURES

Eye Contact:
Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyes wide apart.

Skin Contact:
Wash off with plenty of water.

Ingestion:
Get medical attention if symptoms occur

Inhalation:
Move to fresh air. Get medical attention, if symptoms develop or persist.

Medical conditions aggravated by exposure:
Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	205
Flash point (Celsius):	96
Lower explosive limit (%):	not determined
Upper explosive limit (%):	not determined
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Sensitivity to static discharge is not expected.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:
None known.

Extinguishing media:
Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:
Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:
Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Avoid contact with eyes.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:
Keep container closed when not in use. Do not freeze. Since emptied containers may contain product residue, follow all label warnings, even after container is emptied. Do not cut, drill, grind, or weld on or near this container.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

Personal Protective Equipment

Eye and face protection:
Wear safety glasses or goggles to protect against exposure.

Skin protection:
Appropriate chemical resistant gloves should be worn.

Respiratory protection:
If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation
Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas.

Exposure Guidelines

OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
CLAY 66402-68-4	15 - 20	5 mg/m^3 TWA Zr		
SILICA 14808-60-7	5 - 10	(30)/(%SiO2 + 2) mg/m^3 TWA, total dust (250)/(%SiO2 + 5) mppcf TWA, respirable fraction (10)/(%SiO2 + 2) mg/m^3 TWA, respirable fraction		
TITANIUM DIOXIDE 13463-67-7	5 - 10	15 mg/m^3 TWA dust total		

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
SILICA 14464-46-1	1 - 5	Respirable. Listed. Total dust. Listed.		

ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
CLAY 66402-68-4	15 - 20	0.2 mg/m^3 TWA Mn 5 mg/m^3 TWA Zr	10 mg/m^3 STEL Zr		
SILICA 14808-60-7	5 - 10	0.025 mg/m^3 TWA respirable fraction			
TITANIUM DIOXIDE 13463-67-7	5 - 10	10 mg/m^3 TWA			
SILICA 14464-46-1	1 - 5	0.025 mg/m^3 TWA respirable fraction			

9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	liquid
pH:	not determined
Vapor pressure:	24 mmHg @ 77ºF (25ºC)
Vapor density (air = 1.0):	0.6
Boiling point:	212ºF (100ºC)
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	11.04
Evaporation rate (butyl acetate = 1.0):	0.1
Flash point (Fahrenheit):	205
Flash point (Celsius):	96
Lower explosive limit (%):	not determined
Upper explosive limit (%):	not determined
Autoignition temperature:	not determined

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. Metal oxide fumes.

Sensitivity to static discharge: Sensitivity to static discharge is not expected.

11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
SILICA 14808-60-7	5 - 10	= 500 mg/kg Oral LD50 Rat
TITANIUM DIOXIDE 13463-67-7	5 - 10	> 10000 mg/kg Oral LD50 Rat

Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA. Contains crystaline silica. The IARC has determined that crystaline silica inhaled in the form of quartz or cristobablite from occupational sources is carcinogenic to humans (group 1). Refer to IARC monograph 68 in conjunction with the use of these materials. Risk of cancer depends on the duration and level of exposure. In coatings products, risk is due primarily to inhalation of sanding dusts or respirable particles in spray mists. The NTP has also determined that crystaline silica is a known human carcinogen in the form of fine, breathable particles. Risk of cancer depends on duration and level of exposure in coatings products, risk is due primarily to inhalation of sanding dust or respirable particles in spray mist.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
SILICA 14808-60-7	5 - 10		Listed. initial date 10/1/88 - carcinogen
SILICA 14464-46-1	1 - 5		Listed: October 1, 1988 Carcinogenic.

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
CLAY 66402-68-4	15 - 20			Monograph 43 [1988]
SILICA 14808-60-7	5 - 10	Monograph 68 [1997]		
TITANIUM DIOXIDE 13463-67-7	5 - 10			Monograph 47 [1989]
SILICA 14464-46-1	1 - 5	Monograph 68 [1997]		

Ingredient Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens
SILICA 14808-60-7	5 - 10	Known Human Carcinogen	
SILICA 14464-46-1	1 - 5	Known carcinogen.	

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
CLAY 66402-68-4	15 - 20	Present		
SILICA 14808-60-7	5 - 10	Present		A2 Suspected Human Carcinogen
TITANIUM DIOXIDE 13463-67-7	5 - 10	Present		
SILICA 14464-46-1	1 - 5	Present		A2 Suspected Human Carcinogen

12. ECOLOGICAL DATA

No information on ecology is available.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation

UN ID Number (msds):	NRPAIN
Proper Shipping Name:	PAINT, NOT REGULATED

U.S Hazmat and/or International DG shipment exceptions
The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

Reportable Quantity Description:

International Air Transport Association (IATA):

Proper shipping name:	NOT REGULATED

International Maritime Organization (IMO):

Proper shipping name:	NOT REGULATED
Marine Pollutant	No

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:
SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	no
Reactivity:	no
Sudden Pressure:	no

U.S. STATE REGULATIONS:

Right to Know:
The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

Pennsylvania Right To Know:

SILICA	14808-60-7
CLAY	66402-68-4
TITANIUM DIOXIDE	13463-67-7
SILICA	14464-46-1

Additional Non-Hazardous Materials

PROPRIETARY RESIN	Trade Secret
PROPRIETARY INGREDIENT	Trade Secret

California Proposition 65:
WARNING: This product contains chemicals known to the State of California to cause cancer.

Rule 66 status of product Not photochemically reactive.

INTERNATIONAL REGULATIONS - Chemical Inventories

US TSCA Inventory:
All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List:
All components of this product are listed on the Domestic Substances List.

16. OTHER INFORMATION

HMIS Codes

Health:	2*
Flammability:	0
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:
OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Disclaimer:
The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

Preparation Information:

Prepared By:	Regulatory Affairs Department
Print date:	10/Jul/2013
Revision Date:	11/Jun/2013

Valvoline™ VR1 RACING 60W 12/946 ML MOTOR OIL
241

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

Ashland P.O. Box 2219 Columbus, OH 43216	Regulatory Information Number Telephone Emergency telephone number	1-800-325-3751 614-790-3333 1-800-ASHLAND (1-800-274-5263)

Product name: Valvoline™ VR1 RACING 60W 12/946 ML MOTOR OIL

Product code: 241
Product Use Description: No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid

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

Skin contact
May cause mild skin irritation. Symptoms may include redness and burning of skin. 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.

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:, acne, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, thyroid effects, 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). Used motor oil has been shown to cause skin cancer in laboratory animals continually exposed by repeated applications. Avoid prolonged or repeated skin contact.

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
HEAVY PARAFFINIC DISTILLATE	64742-54-7	>=40-<50%
ALKYLATED PHENOL		>=1-<1.5%
ZINC ALKYLDITHIOPHOSPHATE		>=1-<1.5%

4. FIRST AID MEASURES

Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek 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: 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

Dry chemical, Carbon dioxide (CO2), Water spray

Hazardous combustion products

Aldehydes, carbon dioxide and carbon monoxide, Hydrocarbons, sulfur oxides

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Contains no substances with occupational exposure limit values.

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

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).

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	no data available
Colour	no data available
Odour	no data available
Boiling point/boiling range	424.99 °F / 218.33 °C @ 1,013.33 hPa Calculated Phase Transition Liquid/Gas
Melting point/range	no data available
Sublimation point	no data available
pH	no data available
Flash point	(>)390 °F / 199 °C Cleveland open cup
Ignition temperature	no data available
Evaporation rate	no data available
Lower explosion limit/Upper explosion limit	1 %(V) / 6 %(V)
Particle size	no data available
Vapour pressure	0.013 hPa @ 70.00 °F / 21.11 °C Calculated Vapor Pressure
Relative vapour density	no data available
Density	0.8931 g/cm3 @ 60.01 °F / 15.56 °C
Bulk density	No data
Water solubility	no data available
Solubility(ies)	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
Minimum ignition energy	no data available

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

None known.

Incompatible products
Strong oxidizing agents

Hazardous decomposition products
Aldehydes, carbon dioxide and carbon monoxide, Hydrocarbons, Sulphur oxides

Hazardous reactions
Product will not undergo hazardous polymerization.

Thermal decomposition
No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

HEAVY PARAFFINIC DISTILLATE	:	LD 50 Rat: > 15 g/kg
ALKYLATED PHENOL	:	no data available
ZINC ALKYLDITHIOPHOSPHATE	:	no data available

Acute inhalation toxicity

HEAVY PARAFFINIC DISTILLATE	:	no data available
ALKYLATED PHENOL	:	no data available
ZINC ALKYLDITHIOPHOSPHATE	:	no data available

Acute dermal toxicity

HEAVY PARAFFINIC DISTILLATE	:	LD 50 Rabbit: > 5 g/kg
ALKYLATED PHENOL	:	no data available
ZINC ALKYLDITHIOPHOSPHATE	:	no data available

12. ECOLOGICAL INFORMATION

Biodegradability

HEAVY PARAFFINIC DISTILLATE	:	no data available
ALKYLATED PHENOL	:	no data available
ZINC ALKYLDITHIOPHOSPHATE	:	no data available

Bioaccumulation

HEAVY PARAFFINIC DISTILLATE	:	no data available
ALKYLATED PHENOL	:	no data available
ZINC ALKYLDITHIOPHOSPHATE	:	no data available

Ecotoxicity effects

Toxicity to fish

HEAVY PARAFFINIC DISTILLATE	:	no data available
ALKYLATED PHENOL	:	no data available
ZINC ALKYLDITHIOPHOSPHATE	:	no data available

Toxicity to daphnia and other aquatic invertebrates.

HEAVY PARAFFINIC DISTILLATE	:	no data available
ALKYLATED PHENOL	:	no data available
ZINC ALKYLDITHIOPHOSPHATE	:	no data available

Toxicity to algae

HEAVY PARAFFINIC DISTILLATE	:	no data available
ALKYLATED PHENOL	:	no data available

ZINC ALKYLDITHIOPHOSPHATE	:	no data available

Toxicity to bacteria

HEAVY PARAFFINIC DISTILLATE	:	no data available
ALKYLATED PHENOL	:	no data available
ZINC ALKYLDITHIOPHOSPHATE	:	no data available

Biochemical Oxygen Demand (BOD)

HEAVY PARAFFINIC DISTILLATE	:	no data available
ALKYLATED PHENOL	:	no data available
ZINC ALKYLDITHIOPHOSPHATE	:	no data available

Chemical Oxygen Demand (COD)

HEAVY PARAFFINIC DISTILLATE	:	no data available
ALKYLATED PHENOL	:	no data available
ZINC ALKYLDITHIOPHOSPHATE	:	no data available

Additional ecological information

HEAVY PARAFFINIC DISTILLATE	:	no data available
ALKYLATED PHENOL	:	no data available
ZINC ALKYLDITHIOPHOSPHATE	:	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. 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

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

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

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

SARA Hazard Classification
No SARA Hazards

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

SEVERELY TREATED BASE OIL	
HEAVY PARAFFINIC DISTILLATE	64742-54-7
LUBRICANT ADDITIVE	
ALKYLATED PHENOL	
ZINC ALKYLDITHIOPHOSPHATE	

Pennsylvania RTK Label Information

SEVERELY TREATED BASE OIL	
HEAVY PARAFFINIC DISTILLATE	64742-54-7
LUBRICANT ADDITIVE	

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	n (Negative listing)

Japan. Kashin-Hou Law List	e (special case)
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	q (quantity restricted)

	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).

I. Product and Supplier Information

Product Name: **TIM-517**
Wakefield 120 (Thermal Joint Compound)

MSDS Number:510
Publication Date: January, 2012
Replaces: February, 2010

Product Synonyms: Thermal Joint Compound

Chemical Family or Formula: Complex mixture

Manufactured By:

Timtronics
35 Old Dock Rd
Yaphank. N.Y 11980
Phone: **631-345-6509**
Fax: **631-775-4023**
Website: www.timtronics.com
Email: info@timtronics.com

Package For/Supply By:

Wakefield Solutions
33 Bridge Street
Pelham, NH 03076
Phone: **603-635-2800**
Fax: **603-635-1900**
Website: www.wakefield.com

Product Information: 631-345-6509
Transportation Emergency: 631-345-6509

Note: The purpose of this MSDS is to provide safe handling, shipping and disposal information for users of the product. It is not intended to, nor does it, provide complete or extensive toxicological data on the product or its components. Users who require this information are referred to primary suppliers of the ingredients of interest.

II. Composition and Information on Ingredients

Component Name	CAS #
Silicone Fluid	Proprietary information
Zinc Oxide*	1314-13-2

III. Hazards Identification

OSHA Hazard Classification:
No warning statements required.
Routes of Entry: Inhalation, skin contact, ingestion
Chemical Interactions: Avoid contact with all oxidizing agents.

IV. First Aid

Inhalation:
Remove individual to fresh air. If not breathing, give artificial respiration or oxygen as appropriate. Keep patient warm. Seek immediate medical advice.
Not an expected route of entry. Overexposure may cause irritation of the mucous membranes and respiratory tract.

Skin Contact:
Flush skin thoroughly with soap and water. Rinse thoroughly. Seek medical advice if contact was extensive.
Prolonged direct skin contact may cause dermatitis or irritation.

Eyes:
Immediately flush eyes with plenty of water while holding eyelids apart. Seek immediate medical advice.
Overexposure to direct eye contact may cause redness, irritation, discomfort or tearing.

Ingestion:
May produce laxative effect.
Seek immediate medical advice. Never give anything by mouth to an unconscious person.
Symptoms may include: Headache, dizziness, nausea, intestinal disorders and unconsciousness.
Not an expected route of exposure. Ingestion may cause abdominal pains, cramping, nausea or vomiting
Notes To Physician: Treat symptomatically

V. Fire Fighting Measures

Flammability Summary:

Heavy Grease Flash Point: > 400 F

Fire/Explosion Hazards:

This material is not considered a potential fire and explosion hazard under normal operating conditions.

Extinguishing Media:

Foam, dry chemical or CO2. Water spray may be used to cool containers.
Do not allow contaminated water to enter sewers or waterways.

Fire Fighting Instructions:

In case of fire, use normal fire fighting equipment including a NIOSH approved self-contained breathing breathing apparatus (SCBA). Use water to cool containers.

Hazardous Combustion Products:

Oxides of carbon.

VI. Accidental Release Measures

Personal Protection for Emergency Situations:

Evacuate the area of all unnecessary personnel. Eliminate any ignition sources until the area is determined to be free from explosion and fire hazards. Contain the release and eliminate its source if this can be done safely. Wear protective clothing. Keep unprotected persons away from spill.

Spill Mitigation Procedures

Air Release:

Low volatility makes this hazard unlikely.
Provide adequate ventilation. Keep away from Water and ignition sources.

Water Release:

Contain all liquid for treatment and/or disposal as a (potential) hazardous waste.
Notify all downstream users of possible contamination. Keep away from ignition sources.
Do not flush to sewer! US regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of stipulated quantities. US Coast Guard National Response Center is 800-424-8802.

Land Release:

Create a dike or trench to contain materials. Absorb spill with inert material (e.g., dry sand, clay, earth or commercial absorbent), then place in a chemical waste container. Decontaminate all clothing and the spill area using a detergent and flush with large amounts of water. Contain all contaminated water for disposal and/or treatment.

Additional Spill Information:

Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section XIII, Disposal Considerations.

VII. Handling and Storage

Handling:

Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash with soap and water. Avoid breathing vapor or mist.

Storage

Keep container tightly closed. Store in a cool area away from ignition sources and oxidizers.
No special precautions need be taken if product is handled according to directions.

VIII. Exposure Controls and Personal Protection

Ventilation:

Local exhaust ventilation or other engineering controls are normally NOT necessary when handling or using this product. General exhaust ventilation is usually sufficient for general worker safety and comfort.
Explosion proof motors and fans are not required for unheated handling.

Respirator Type(s):

Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

Skin: Wear impervious gloves (butyl rubber, Viton, e.g.) to avoid skin contact. Follow good industrial hygiene practices.
Eyes: Use chemical safety glasses with side shields, safety goggles and/or a full face shield where splashing is possible.
Protective Clothing Type: Impervious

IX. Physical and Chemical Data

Physical State: Heavy grease
Color: White
Odor: Nil

Explosive limits:
No data. Low volatility makes ambient explosive vapor concentrations impossible.

Molecular Weight:	Not applicable to mixtures	Vapor Density (Air = 1):	No data
pH (@ 25 Deg. C):	Not applicable	Vapor Pressure: (@ 20 Deg. C):	< 1
Octanol/Water Coeff:	No data	Evaporation Rate (Estimated):	< 1
Solubility in Water:	negligible	Flash Point, (Estimated)	> 400F
Bulk Density:	Not applicable	Volatiles % by vol.:	negligible
Specific Gravity (68 Deg.F):	2.2	Approximate Boiling Point (deg.F):	> 400
		Drop Point:	None

X. Stability and Reactivity

Stability and Reactivity Summary:
Stable under normal conditions.
Reactive Properties:
Sensitivity to mechanical shock: None
Hazardous Polymerization: Will not occur
Conditions to Avoid: High temperatures, ignition sources, oxidizing materials.
Chemical Incompatibility: Oxidizers.
Incompatible materials: No data
Hazardous Decomposition Products: CO, CO2
Decomposition Temperature: No data
Product May Be Unstable At Temperatures Above: No data

XI. Toxicological Information

Component Animal Toxicology
Oral LD50 value: No data
Dermal LD50 value: No data
Inhalation LC50 value: No data
Product Animal Toxicity: No data

Skin Irritation:
This material is expected to be slightly irritating to the skin and mucous membranes.
Eye Irritation:
This material is expected to be irritating.
Reproductive and Developmental Toxicity:
No Data
Component Data:
All data refer to finished product
Mutagenicity:
Not known or reported to be mutagenic.
Carcinogenicity:
This chemical is not known or reported to be carcinogenic by any reference source including IARC, EPA OSHA, NTP, or ACGIH.

XII. Ecological Information

Ecological Toxicity Values:
Do not allow this material to be released to the environment without appropriate governmental permits.
Environmental fate: No information found
Environmental Toxicity No information found

XIII. Disposal Considerations

Consult current local, state and national regulations to ensure proper disposal.
Waste Disposal Summary:
Product as made does not qualify as an "Unlisted Hazardous Waste" for disposal situations.

Disposal Methods:
Dispose of in accordance with local, state and federal regulations for hazardous waste.

XIV. Transportation Information

Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, Emergency Response Guide Number

Not regulated

Labels required per 49 CFR 172.101:	None
Size for "Limited quantity" per 49 CFR 173.150-.155:	Not applicable
Reportable Quantity ("RQ") per 49 CFR172.101:	None
Air (IATA/ICAO): Passenger & Cargo:	Not applicable
Eff. Jan 1, 2001 Cargo only:	Not applicable
Special Provisions:	Not applicable
Emergency response Group Code:	Not applicable

XV. Regulatory Information

UNITED STATES:

Toxic Substances Control Act (TSCA):

The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

Superfund Amendments and Reauthorization Act (SARA) Title III:Section 313 – Toxic Chemicals:

Zinc Oxide CAS# 1314-13-2

Safety Phrases:

Keep container tightly closed in a well ventilated area, away from sources of ignition. No smoking.
Do not breathe gas, fumes, vapor or spray from this product.
Do not empty into drains.

State Right-to-Know Regulations Status of Ingredients

Pennsylvania: No information
New Jersey: No information
Massachusetts: No information

Hazard Category Classifications and Ratings

Hazard Categories:	Health	Fire	Pressure	Reactivity	
HMIS Hazard Ratings: Health 1	Fire 1	Instability 0	Other B (Goggles, gloves)		
NFPA 704 Hazard Ratings: Health 1	Flammability 1	Reactivity 1	Special NA		
Hazard Ratings: Least: 0	Slight: 1	Moderate: 2	High: 3	Extreme: 4	

XVI. Additional Information

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. WE BELIEVE THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF ITS PUBLICATION DATE, BUT MAKE NO WARRANTY THAT IT IS. IF THIS MSDS IS MORE THAN THREE YEARS OLD YOU SHOULD CONTACT THE SUPPLIER TO MAKE CERTAIN THAT THE INFORMATION IS CURRENT.

Prepared By: Prakash Khatri
Revised date: January, 2012

Material Safety Data Sheet

1 - Chemical Product and Company Identification

Manufacturer: WD-40 Company **Address: 1061 Cudahy Place (92110)** **P.O. Box 80607** **San Diego, California, USA** **92138 –0607** **Telephone:** **Emergency only: 1-888-324-7596 (PROSAR)** **Information: 1-888-324-7596** **Chemical Spills: 1-800-424-9300 (Chemtrec)** **1-703-527-3887 (International Calls)**	**Chemical Name: Organic Mixture** **Trade Name: WD-40 Aerosol** **Product Use: Lubricant, Penetrant, Drives Out Moisture, Removes and Protects Surfaces From Corrosion** **MSDS Date Of Preparation: 6/8/12**

2 – Hazards Identification

Emergency Overview:
DANGER! Flammable aerosol. Contents under pressure. Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage. May cause eye irritation. Avoid eye contact. Use with adequate ventilation. Keep away from heat, sparks and all other sources of ignition.

Symptoms of Overexposure:
Inhalation: High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.
Skin Contact: Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.
Eye Contact: Contact may be irritating to eyes. May cause redness and tearing.
Ingestion: This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.
Chronic Effects: None expected.
Medical Conditions Aggravated by Exposure: Preexisting eye, skin and respiratory conditions may be aggravated by exposure.

Suspected Cancer Agent:
Yes No X

3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent
Aliphatic Hydrocarbon	64742-47-8	45-50
Petroleum Base Oil	64742-58-1 64742-53-6 64742-56-9 64742-65-0	<25
LVP Aliphatic Hydrocarbon	64742-47-8	12-18
Carbon Dioxide	124-38-9	2-3
Non-Hazardous Ingredients	Mixture	<10

Inhalation (Breathing): If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

5 – Fire Fighting Measures

Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.
Special Fire Fighting Procedures: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.
Unusual Fire and Explosion Hazards: Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.

6 – Accidental Release Measures

Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area. Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

7 – Handling and Storage

Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.
Storage: Store in a cool, well-ventilated area, away from incompatible materials. Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol.

8 – Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Petroleum Base Oil	5 mg/m3 TWA, 10 mg/m3 STEL ACGIH TLV 5 mg/m3 TWA OSHA PEL
LVP Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Carbon Dioxide	5000 ppm TWA (OSHA/ACGIH), 30,000 ppm STEL (ACGIH)
Non-Hazardous Ingredients	None Established

The Following Controls are Recommended for Normal Consumer Use of this Product
Engineering Controls: Use in a well-ventilated area.
Personal Protection:
Eye Protection: Avoid eye contact. Always spray away from your face.
Skin Protection: Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.
Respiratory Protection: None needed for normal use with adequate ventilation.

Skin Protection: Wear chemical resistant gloves.
Respiratory Protection: None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.
Work/Hygiene Practices: Wash with soap and water after handling.

9 – Physical and Chemical Properties

Boiling Point:	361 - 369°F (183 - 187°C)	Specific Gravity:	0.8 – 0.82 @ 60°F
Solubility in Water:	Insoluble	pH:	Not Applicable
Vapor Pressure:	95-115 PSI @ 70°F	Vapor Density:	Greater than 1
Percent Volatile:	70-75%	VOC:	412 grams/liter (49.5%)
Coefficient of Water/Oil Distribution:	Not Determined	Appearance/Odor	Light amber liquid/mild odor
Flash Point:	122°F (49°C) Tag Open Cup (concentrate)	Flammable Limits: (Solvent Portion)	LEL: 0.6% UEL: 8.0%
Pour Point:	-63°C (-81.4°F) ASTM D-97	Kinematic Viscosity:	2.79-2.96cSt @ 100°F

10 – Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.
Incompatibilities: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

11 – Toxicological Information

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.
None of the components of this product is listed as a carcinogen or suspected carcinogen or is considered a reproductive hazard.

12 – Ecological Information

No data is currently available.

13 - Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Dispose in accordance with federal, state, and local regulations.

14 – Transportation Information_

DOT Surface Shipping Description: Consumer Commodity, ORM-D
After 1/1/2014 UN1950, Aerosols, 2.1 Ltd. Qty (Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must be marked with the Limited

15 – Regulatory Information

U.S. Federal Regulations:
CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.
SARA TITLE III:
Hazard Category For Section 311/312: Acute Health, Fire Hazard, Sudden Release of Pressure
Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III
Section 313 Reporting requirements: None
Section 302 Extremely Hazardous Substances (TPQ): None
EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.
California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): This product does not contain chemicals regulated under California Proposition 65.
VOC Regulations: This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules.
Canadian Environmental Protection Act: One of the components is listed on the NDSL. All of the other ingredients are listed on the Canadian Domestic Substances List or exempt from notification.
Canadian WHMIS Classification: Class B-5 (Flammable Aerosol)
This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

16 – Other Information:

HMIS Hazard Rating:
Health – 1 (slight hazard), Fire Hazard – 4 (severe hazard), Reactivity – 0 (minimal hazard)

SIGNATURE:  TITLE: Adm. Scientific Manager

REVISION DATE: June 2012 SUPERSEDES: March 2010