

Prod.Name: AT Seal Conditioner Manufacturer: Afton Chemical Corporation HMCS ID: 1184725 SUC: 04 - Metal Working Fluids and Lubricants	MATERIAL SAFETY DATA SHEET	Revision: 11.Jan.2006 Effective: 11.Jan.2006 Print Date: 05.May.2006 Page: 1 of 5
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1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT INFORMATION

Product Name: AT Seal Conditioner

Product Synonyms:
88861314

External Keys:
88861314 Distributable Material (Part #)
Automatic Primary Tradename - Distributable Material
Transmission
Seal Conditioner
CN36022 GM of Canada Approval Number

MANUFACTURER INFORMATION

Manufacturer: Afton Chemical Corporation

Address:
500 Spring St. USA Virginia 23219 Richmond Afton Chemical Corporation

Communication Lines:
Phone 1-804-788-5800 Information
Phone 1-800-403-0044 Emergency (United States and Canada)

Comment:
VALIDATED BY HS&E Department.

2 INGREDIENT INFORMATION

FORMULATION

Ingredients:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Exposure Limits</u>
METHACRYLATE COPOLYMER	989906-41-4	Range	5-9.9	%Wt	No
MINERAL OIL	989915-78-8	Range	1-4.9	%Wt	Yes

3 HAZARDS IDENTIFICATION

Hazards Overview:

Primary Hazards and Critical Effects: NOTICE!

Specific Hazards:

ROUTES OF ENTRY: Skin, eyes, inhalation and ingestion.

Specific Hazards (Routes Of Exposure):

<u>Exposure Routes</u>	<u>Exposure Duration</u>	<u>Observation</u>
Inhalation	Acute	Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.
Ingestion	Acute	Not determined.
Skin Contact	Acute	Non-irritating to the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
Eye Contact	Acute	Non-irritating to the eyes.

Medical Conditions Aggravated By Exposure:
Not provided.

Additional Health Hazard Data:

Target Organs: Contains material which may cause damage to the following organs: liver, thyroid.
Alkoxy sulfolane : Adverse symptoms may include: Alkoxy sulfolane was given by oral gavage to rats for 28 days. Liver weight increases and eosinophilia of hepatocytes were noted. These changes may be due to hepatic microsomal enzyme (i.e., cytochrome P450) induction, as both increased weight and eosinophilia are commonly observed in the livers of animals treated with known cytochrome P450 inducers. Minimal hypertrophy of the thyroid follicular epithelium was also observed. Renal hyaline droplet changes were observed in this study which are consistent with male rat-specific nephropathy. Consequently, the renal findings observed in male rats in this study are likely of no significance.

4 FIRST AID MEASURES

First Aid By::

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get

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Skin Contact	medical attention if symptoms appear.
Eye Contact	Wash with soap and water. Get medical attention if irritation occurs.
Ingestion	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
	If affected person is fully conscious, give one glass of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

5 FIRE FIGHTING MEASURES

Flash Point:
= 156 C PMCC (312.8F) Minimum.

Extinguishing Media:
In case of fire, use water spray (fog), foam, dry chemical, or CO2.

Special Fire Fighting Procedures:
Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6 ACCIDENTAL RELEASE MEASURES

PRECAUTIONS IN CASE OF ACCIDENTAL RELEASE

Personal Precautions:
Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
Environmental Precautions:
Minimize contact of spilled material with soils to prevent runoff to surface waterways

SPILL OR LEAK PROCEDURES

Recovery:
If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.
Note: See section 1 for emergency contact information and section 13 for waste disposal.

7 HANDLING AND STORAGE

HANDLING
Safe Handling Procedures:
Wash thoroughly after handling.

STORAGE
Storage Conditions:
Keep container tightly closed. Keep container in a cool, well-ventilated area.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

EXPOSURE LIMITS

Limit Values:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Value</u>	<u>Specificati on</u>	<u>Source</u>
MINERAL OIL	989915-78-8	GM OEG- TWA	5mg/m3	-	GM Occupational Exposure Guidelines (OEG)
MINERAL OIL	989915-78-8	TLV- TWA	5mg/m3	-	Threshold Limit Values (TLVs) - ACGIH
MINERAL OIL	989915-78-8	TLV- STEL	10mg/m3	-	Threshold Limit Values (TLVs) - ACGIH
MINERAL OIL	989915-78-8	State- TWA	5mg/m3	-	MICHIGAN
MINERAL OIL	989915-78-8	State-	5mg/m3	-	NEW YORK

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Value</u>	<u>Specificati on</u>	<u>Source</u>
MINERAL OIL	989915-78-8	TWA State- TWA	5mg/m3	-	TENNESSEE
MINERAL OIL	989915-78-8	GM OEG- STEL	10mg/m3	-	GM Occupational Exposure Guidelines (OEG)
MINERAL OIL	989915-78-8	PEL-T WA	5mg/m3	-	OSHA - Permissible Exposure Limits (PELs)

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE):

Respiratory Protection	Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s).
Skin Protection	No special recommendations.Disposable outer garments when there is the potential for contact with the material.
Hand Protection	Use chemical resistant, impervious gloves.
Eye Protection	Safety glasses with side shields. Goggles with a face shield may be necessary depending on quantity of material and conditions of use.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical State: Liquid.
Odor: Petroleum-like.

PHYSICAL PROPERTIES

Density:			
Density	=	0.943	g/cc3
Specific Gravity:			
=		0.943	
Viscosity:			
Viscosity	=	22.58	cSt @ 40C
Viscosity	=	6.06	cSt @ 100C

10 STABILITY AND REACTIVITY

STABILITY INFORMATION

Stability Under Normal Conditions: Stable
Conditions to Avoid:
High temperatures, sparks, and open flames.
Incompatible Materials:
Strong oxidizing and reducing agents.
Comment:
STABILITY: The product is stable.

11 TOXICOLOGICAL INFORMATION

SCIENTIFIC OBSERVATIONS

LETHAL LIMIT VALUES

Product Data:

<u>Exposure Routes</u>	<u>Type</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Species</u>	<u>Comment</u>
Skin Contact	LD50	>	2000	mg/kg	Rabbit	Alkyl Ester.
Ingestion	LD50	>	5000	mg/kg	Rat	Alkoxy Sulfolane.
Skin Contact	LD50	>	2000	mg/kg	Rabbit	

Additional Information:
OTHER INFORMATION: Not available.

CLASSIFICATION OF INGREDIENTS

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Carcinogenicity:
Carcinogenic Effects: Not classified or listed by IARC, NTP, OSHA, and ACGIH.

12 ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT

Comment:
Environmental Hazards Not classified as dangerous for the environment according to EC criteria.
Environmental Hazards: Not classified as dangerous for the environment according to EC criteria. Based on calculation.
Environmental Fate : This product contains components which may be persistent in the environment.

13 DISPOSAL CONSIDERATIONS

Waste Disposal Information:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14 TRANSPORT INFORMATION

DOT Shipping Name:
Environmentally hazardous substance, liquid, n.o.s. (alkoxy sulfolane).
DOT Hazard Class:
9
DOT UN Code:
UN3082
DOT Packing Group:
III
Comment:
TDG CLASSIFICATION:
UN NUMBER: 3082.
PROPER SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s. (alkoxy sulfolane).
CLASS: 9.
PACKING GROUP: III
ADR/RID CLASS:
UN NUMBER: 3082.
PROPER SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s. (alkoxy sulfolane).
CLASS: 9.
PACKING GROUP: III
HAZARD IDENTIFICATION NUMBER: 90.
IMDG CLASS:
UN NUMBER: 3082.
PROPER SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s. (alkoxy sulfolane).
CLASS: 9.
PACKING GROUP: III
IMDG CLASS: MARINE POLLUTANT. (Alkoxy sulfolane (p))

15 REGULATORY INFORMATION

LABELLING

Hazard Codes:
NFPA Health 0
NFPA Flammability 1
NFPA Reactivity 0
HMIS Health 0
HMIS Flammability 1
HMIS Reactivity 0
Comment:
NFPA assigned by General Motors Technical Review.

NATIONAL REGULATIONS

SARA 311/312: Yes
SARA 313: No
Immediate Health: No
Delayed Health: Yes
Fire: No
Sudden Pressure Release: No
Reactive: No
Other Regulation:

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SARA 313:

No SARA 313 chemicals are present above the reporting threshold.

TSCA:

All components on TSCA Inventory.

16 OTHER INFORMATION

Comments:
ADDITIONAL EXPOSURE LIMITS: GM Occupational Exposure Guidelines (OEG) and State-TWA’s were provided by General Motors.