



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

ADVAPAK(TM) S-1100 Stabilizer Lubricant Blend

Revision date: 09/01/2010

Supplier Rohm and Haas Company
100 Independence Mall West
Philadelphia, PA 19106-2399 United States of America

For non-emergency information contact: 215-592-3000

Emergency telephone

Spill Emergency	215-592-3000
Health Emergency	215-592-3000
Chemtrec	800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Mixed alkylmetallic mercaptoester sulfides	Trade Secret	50.0 - 60.0%
Petroleum wax	Not Hazardous	20.0 - 30.0%
Metallic soap	Not Hazardous	10.0 - 20.0%
Synthetic wax	Not Hazardous	1.0 - 5.0%

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance

Form	Beads
Colour	tan
Colour	Opaque, waxy

Hazard Summary

CAUTION!

INHALATION OF VAPOR OR MIST CAN CAUSE HEADACHE, NAUSEA AND IRRITATION OF THE NOSE, THROAT AND LUNGS. MAY CAUSE EYE AND SKIN IRRITATION. PROLONGED OR REPEATED OVEREXPOSURE CAN CAUSE THE FOLLOWING:
KIDNEY EFFECTS
BLOOD CHANGES
CAN BE ABSORBED THROUGH INTACT SKIN.

Potential Health Effects

Primary Routes of Entry:

Skin contact
Eye contact
Dermal Absorption

Eyes: May cause eye irritation.

Skin: May cause skin irritation.

Can be absorbed through intact skin.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Material can cause the following:

Abdominal pain

Inhalation: Exposure by inhalation is unlikely.

Chronic Exposure: Prolonged or repeated overexposure can cause the following:

Kidney effects

Blood changes

Mixed alkylmetallic mercaptoester sulfides	ACGIH	Not classifiable as a human carcinogen.
Metallic soap	ACGIH	Not classifiable as a human carcinogen.

4. FIRST AID MEASURES

Inhalation: Move to fresh air.

Skin contact: Wash off immediately with soap and plenty of water. Remove contaminated clothing. If skin irritation persists, call a physician. Wash contaminated clothing before re-use. Do not take clothing home to be laundered.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion: Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a physician.

Notes to physician: Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

5. FIRE-FIGHTING MEASURES

Flash point > 205 °C (> 401.00 °F) SETAFLASH CLOSED CUP

Thermal decomposition Combustion generates toxic fumes of the following:, Carbon oxides, sulfur oxides

Suitable extinguishing media: Extinguishing media - small fires

Dry chemical

Carbon dioxide (CO₂)

Water spray

Extinguishing media - large fires

Foam

Specific hazards during fire fighting: High temperatures can cause sealed containers to rupture due to a build up or of internal pressure. During a fire, irritating and highly toxic gases and/or fumes may be generated during combustion or decomposition.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective suit.

Further information: Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment.

Material can create slippery conditions.

If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

Environmental precautions

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods for cleaning up

Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Vapors can be evolved when material is heated during processing operations. See SECTION 8, Exposure Controls/Personal Protection, for types of ventilation required. Do not breathe vapors, mist or gas. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Shower or bathe at the end of working.

Storage

Storage conditions:Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure limit(s)**

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value
Mixed alkylmetallic mercaptoester sulfides	ACGIH	TWA	0.1 mg/m3
	ACGIH	STEL	0.2 mg/m3
	ACGIH	SKIN_DES	
	OSHA_TRANS	PEL	0.1 mg/m3
	ACGIH	TWA	0.1 mg/m3
	ACGIH	STEL	0.2 mg/m3
	ACGIH	SKIN_DES	
	OSHA_TRANS	PEL	0.1 mg/m3
	Z1A	TWA	0.1 mg/m3
	Z1A	SKIN_FINAL	

Component	Regulation	Type of listing	Value
Metallic soap	ACGIH	TWA	10 mg/m3

Eye protection:Safety glasses with side-shields Eye protection worn must be compatible with respiratory protection system employed.

Hand protection:Chemical-resistant gloves should be worn whenever this material is handled. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water.

Skin and body protection:impervious clothing Apron

Respiratory protection:None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. Up to 10 times the exposure limit: Wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Up to 50 times the exposure limit: Wear a properly fitted NIOSH approved (or equivalent) full-facepiece, air-purifying respirator, OR full-facepiece, airline respirator in the pressure demand mode. Above 50 times the exposure limit or Unknown: Wear a properly fitted NIOSH approved (or equivalent) self-contained breathing apparatus in the pressure demand mode, OR full-facepiece, airline respirator in the pressure demand mode with emergency escape provision. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor cartridges and R95 or P95 filters.

Protective measures:Wash thoroughly after handling. Shower or bathe at the end of working. Facilities storing or utilizing this material should be equipped with an eyewash facility.

Engineering measures:Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	Beads
Colour	tan
	Opaque, waxy
pH	not applicable
Boiling point/boiling range	> 390 °C (> 734.00 °F) Decomposes
Flash point	> 205 °C (> 401.00 °F) SETAFLASH CLOSED CUP
Water solubility	insoluble
Density	1.05 g/cm3 at 25.00 °C (77.00 °F)

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous reactions	None known. Stable
Materials to avoid	Acids Oxidizing agents Contact with acids can generate hydrogen sulfide (CAS Reg. No. 7783-06-4).
polymerisation	Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

No toxicity data are available for this material.

Component: **Mixed alkylmetallic mercaptoester sulfides**

Acute oral toxicity LD50 rat > 4,000 mg/kg

Component: **Petroleum wax**

Acute oral toxicity LD50 rat >5,000 mg/kg

Component: **Metallic soap**

Acute oral toxicity LD50 rat 5,000 mg/kg

Component: **Metallic soap**

Acute dermal toxicity LD50 rabbit 5,000 mg/kg

Component: **Mixed alkylmetallic mercaptoester sulfides**

Skin irritation No skin irritation

Component: **Mixed alkylmetallic mercaptoester sulfides**

Eye irritation No eye irritation

Component: **Mixed alkylmetallic mercaptoester sulfides**

Subchronic toxicity Oral rat
90-day In oral studies of 28 days (gavage) and 90 days (dietary) a dose of approximately 50 mg/kg-day in rats produced blood chemistry changes suggestive of diuresis, plus increases in hemoglobin, hematocrit, and red blood cells in the absence of other histopathological effects. The No Observable Effect Level (NOEL) was approximately 15 mg/kg body weight - day.

Component: **Mixed alkylmetallic mercaptoester sulfides**

Mutagenicity

Not mutagenic in Ames Test. In vivo micronucleus assay (mouse bone marrow cells): Not mutagenic

12. ECOLOGICAL INFORMATION

There is no data available for this product.

Petroleum wax

Ecotoxicity effects

Toxicity to fish LC50 Oncorhynchus mykiss (rainbow trout) 96 h OECD Test Guideline 203
>1,000 mg/l

Toxicity to algae EC50 Algae (Scenedesmus subspicatus) 96 h
>1,000 mg/l

Toxicity to aquatic invertebrates EC50 Daphnia magna 48 h OECD Test Guideline 202
>10,000 mg/l

Metallic soap

Ecotoxicity effects

Toxicity to fish LC50
>100 mg/l

Toxicity to aquatic invertebrates EC50 Daphnia magna
>100 mg/l

13. DISPOSAL CONSIDERATIONS

Environmental precautions:CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Disposal

Waste Classification:When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP). For disposal, incinerate this material at a facility that complies with local, state, and federal regulations.

Contaminated packaging:Improper disposal or reuse of this container may be dangerous and illegal.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

IMO/IMDG

Not regulated (Not dangerous for transport)

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. REGULATORY INFORMATION

Workplace Classification

OSHA: This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

WHMIS : This product is a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA TITLE III:Section 311/312 Categorizations (40CFR370):Acute Health Hazard

Chronic Health Hazard

SARA TITLE III:Section 313 Information (40CFR372)

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

CERCLAInformation(40CFR302.4)

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

US. Toxic Substances Control Act (TSCA):All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Pennsylvania

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

16. OTHER INFORMATION

HMIS: * = Chronic Effects (See Hazards Identification)

HMISHazard Rating

Health	Fire	Reactivity	Physical Hazard	PPE
*1	1	0		

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
BAC	Butyl acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL):
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
	Bar denotes a revision from prior MSDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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