



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

ADVAPAK(TM) S-1203 Stabilizer Lubricant Blend

Revision date: 07/11/2004

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 number

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Petroleum wax	Trade Secret	60.0 - 70.0%
Metallic soap	Not Hazardous	20.0 - 30.0%
Methyltin mercaptide sulfides	Trade Secret	5.0 - 10.0%
Organic acid	Trade Secret	1.0 - 5.0%
Inorganic salts	Trade Secet	1.0 - 5.0%
Synthetic wax	Not Hazardous	1.0 - 5.0%

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance

Form	Beads
Colour	Off-white, cream color Opaque, waxy
Odour	Mercaptan

Hazard Summary

CAUTION!

INHALATION OF VAPOR OR MIST CAN CAUSE HEADACHE,
NAUSEA AND IRRITATION OF THE NOSE, THROAT AND LUNGS.
MAY CAUSE EYE/SKIN IRRITATION.
KIDNEY INJURY MAY OCCUR.

Potential Health Effects

Primary Routes of Entry: Skin contact
Eye contact

Eyes: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Material can cause the following:
abdominal pain

Inhalation: Exposure by inhalation is unlikely.

Chronic Exposure: Prolonged or repeated overexposure can cause the following:
internal organ effects
central nervous system (CNS) effects
immune system effects
Kidney effects

Metallic soap	ACGIH	Not classifiable as a human carcinogen.
Methyltin mercaptide sulfides	ACGIH	Not classifiable as a human carcinogen.
Organic acid	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. If skin irritation persists, call a physician.

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	> 200 °C (> 392.00 °F) SETAFLASH CLOSED CUP
Lower explosion limit	No data available
Upper explosion limit	No data available
Suitable extinguishing media:	Extinguishing media - small fires dry chemical carbon dioxide (CO ₂) water spray Extinguishing media - large fires foam

Specific hazards during fire fighting: 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.

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

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapors, mist or gas.

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
Methyltin mercaptide sulfides	ACGIH	TWA	0.1 mg/m ³
	ACGIH	STEL	0.2 mg/m ³
	ACGIH	Skin	
	OSHA_TRANS	PEL	0.1 mg/m ³

Component	Regulation	Type of listing	Value
Organic acid	ACGIH	TWA	10 mg/m ³
	Rohm and Haas	TWA	10 mg/m ³
	ACGIH	TWA	10 mg/m ³

Component	Regulation	Type of listing	Value
Inorganic salts	OSHA_TRANS	PELRespirable fraction.	5 mg/m ³
	OSHA_TRANS	PELTotal dust.	15 mg/m ³
	OSHA_TRANS	PELRespirable fraction.	5 mg/m ³
	OSHA_TRANS	PELTotal dust.	15 mg/m ³
	OSHA_TRANS	PELRespirable fraction.	5 mg/m ³
	OSHA_TRANS	PELTotal dust.	15 mg/m ³
	OSHA Z3	Respirable fraction.	
	OSHA Z3	Total dust.	
	ACGIH	TWARespirable particles.	3 mg/m ³
	ACGIH	TWAIhalable	10 mg/m ³

particles.

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

Hand protection:Cotton or canvas gloves.

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:None required under normal operating conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Beads
Colour	Off-white, cream color Opaque, waxy
Odour	Mercaptan
pH	not applicable
Boiling point/range	300 - 380 °C (572.00 - 716.00 °F) Decomposes
Melting point/range	42 - 46 °C (108 - 115 °F)
Flash point	> 200 °C (> 392.00 °F) SETAFLASH CLOSED CUP
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	0.1 mmHg at > 25 °C (> 77.00 °F)
Water solubility	insoluble
Density	1.0 g/cm ³ at 25.00 °C (77.00 °F)
Percent volatility	>0 %

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).
polymerization	Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

Subchronic toxicity A short-term (14-day) and sub-chronic (90-day) toxicity study in rats on a similar product showed the following results: no gross or microscopic pathological changes were observed under short-term or sub-chronic conditions; the no-toxic-effect level was >5000 ppm in the diet for 3 months.

Component:**Metallic soap**

Acute oral toxicity LD50rat 5,000 mg/kg

Component:**Methyltin mercaptide sulfides**

Acute oral toxicity LD50rat > 5,000 mg/kg

Component:**Organic acid**

Acute oral toxicity LD50rat > 10,000 mg/kg

Component:**Inorganic salts**

Acute oral toxicity LD50rat 6,450 mg/kg

Component:**Metallic soap**

Acute dermal toxicity LD50rabbit 5,000 mg/kg

Component:**Methyltin mercaptide sulfides**

Acute dermal toxicity LD50rabbit > 2,000 mg/kg

Component:**Inorganic salts**

Acute dermal toxicity LD50rabbit 6,450 mg/kg

Component:**Methyltin mercaptide sulfides**

Skin irritation slight irritation

Component:**Methyltin mercaptide sulfides**

Eye irritation No eye irritation

12. ECOLOGICAL INFORMATION

Metallic soap

Ecotoxicity effects

Toxicity to fish LC50
>100 mg/l

Toxicity to aquatic invertebrates EC50Daphnia magna
>100 mg/l

Inorganic salts

Ecotoxicity effects

Toxicity to fish LC50
200 mg/l

Toxicity to aquatic invertebrates EC50Daphnia magna
1,000 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. Refer to applicable local, state and federal regulations as well as industry standards.

Contaminated packaging:Can be landfilled or incinerated, when in compliance with local regulations. Refer to applicable federal, state, and local regulations. 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

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

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) The product contains an intentional component that is subject to a restriction. Production and/or use is limited by the conditions of the restriction.

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

Hazard Rating

	Health	Fire	Reactivity
HMIS	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.

Print Date: 07/14/2004
Version:2.0
Layout 105570