



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

- **Starbar Prolate/Lintox-HD Insecticidal Spray & Backrubber for Livestock**

Synonyms

- 61200C; 64580D; EPA Reg. No.: 2724-262

Product Description

- Clear light amber to medium brown liquid.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

- Insecticide.

Restrictions on use

- **KEEP OUT OF THE REACH OF CHILDREN.** Avoid contact with eyes, skin and clothing. Do not use or store near heat or open flame. Avoid release to the environment. Do not take internally.

Details of the supplier of the safety data sheet

Manufacturer

- Wellmark International
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173
United States

Emergency telephone number

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Manufacturer • 1-800-347-8272

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Aspiration 1
- Skin Irritation 2
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
- Flammable Liquids 4
- Eye Mild Irritation 2B
- Acute Toxicity Oral 4
- Carcinogenicity 2
- Specific Target Organ Toxicity Single Exposure 1

Label elements

OSHA HCS 2012

DANGER

- Hazard statements** • Causes skin irritation
 May be fatal if swallowed and enters airways
 May cause drowsiness or dizziness
 Combustible liquid
 Harmful if swallowed
 Causes eye irritation
 Suspected of causing cancer.
 Causes damage to organs.

Precautionary statements

- Prevention** • Do not breathe dust, fume, gas, mist, vapors and/or spray.
 Use only outdoors or in a well-ventilated area.
 Wash thoroughly after handling.
 Avoid breathing dust, fume, gas, mist, vapors and/or spray.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • IF ON SKIN: Wash with plenty of soap and water.
 If skin irritation occurs: Get medical advice/attention.
 Take off contaminated clothing and wash before reuse.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 Rinse mouth.
 Do NOT induce vomiting.
 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
 Call a POISON CENTER or doctor/physician if you feel unwell.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
 IF exposed: Call POISON CENTER or doctor/physician.
 In case of fire: Use water spray, foam, CO2 or dry chemical to extinguish.
- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Store in a well-ventilated place. Keep container tightly closed.

Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous. This pesticide is toxic to aquatic organisms, including fish and invertebrates. This pesticide is highly toxic to bees.

Section 3 - Composition/Information on Ingredients**Substances**

- Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
Phosmet	CAS:732-11-6	11.75%
Solvent naphtha	CAS:64742-94-5	74.74% TO 75.02%
Naphthalene	CAS:91-20-3	0.13% TO 0.93%
Other ingredients	NDA	Balance

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor if you feel unwell.

Skin

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. Call poison control center or doctor for treatment advice.

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

- IF SWALLOWED: Immediately call a poison control center or doctor. Aspiration hazard - if swallowed, do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

- Aspiration hazard, harmful if swallowed, may cause dizziness or drowsiness if inhaled, causes skin irritation, causes eye irritation, exposure to phosmet (active ingredient) may result in cholinesterase depression, suspected of causing cancer. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- This product contains an organophosphate and may cause cholinesterase inhibition. Cholinergic symptoms may include salivation, miosis, in coordination, muscle fasciculation and/or weakness, vomiting, and diarrhea. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine. Probable mucosal damage may contradict the use of gastric lavage. Contains petroleum distillate. Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.
 - SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

- Unsuitable Extinguishing**
- Do not use direct water stream.

Media

- Firefighting Procedures**
- Do not allow fire fighting water to escape into waterways or sewers. LARGE FIRES: Move containers from fire area if you can do it without risk. Stay upwind. Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray.

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Combustible liquid.
- Hazardous Combustion Products**
- Carbon monoxide and carbon dioxide.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Do not walk through spilled material. Ventilate enclosed areas. Wear appropriate personal protective equipment, avoid direct contact. Keep all sources of ignition away.

- Emergency Procedures**
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering. Avoid release into the environment. Stay upwind. Avoid unnecessary personnel and equipment traffic in the spill area. Take precautionary measures against static discharge. Turn off electric power to area. Eliminate all ignition sources. Stop leak if you can do it without risk.

Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
- Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal. All equipment used when handling the product must be grounded. LARGE SPILLS: Dike far ahead of spill for later disposal. Stop leak if you can do it without risk.

Section 7 - Handling and Storage

Precautions for safe handling

- Handling**
- Keep away from fire - No Smoking. Avoid breathing fumes. Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. Keep away from heat and sparks. Do not use in areas without adequate ventilation. Do not use sparking tools. Take precautionary measures against static charges.

Conditions for safe storage, including any incompatibilities

- Storage**
- Store locked up. Store in a cool/low-temperature, well-ventilated dry place away from heat and ignition sources. Keep from freezing. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F Store in a well-ventilated place. Keep container tightly closed.

- Incompatible Materials or**
- Heat, sparks, open flame.

Ignition Sources**Section 8 - Exposure Controls/Personal Protection****Control parameters****Exposure Limits/Guidelines** • No data available.

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Naphthalene (91-20-3)	TWAs	10 ppm TWA	10 ppm TWA; 50 mg/m3 TWA	10 ppm TWA; 50 mg/m3 TWA
	STELs	Not established	15 ppm STEL; 75 mg/m3 STEL	Not established

Exposure Control Notations**ACGIH**•Naphthalene (91-20-3): **Skin:** (Skin - potential significant contribution to overall exposure by the cutaneous route)**Exposure Limits Supplemental****ACGIH**•Naphthalene (91-20-3): **TLV Basis - Critical Effects:** (cataracts; upper respiratory tract irritation; hemolytic anemia)**Exposure controls****Engineering****Measures/Controls**

- Use adequate ventilation to remove vapors (fumes, dust, etc.)

Personal Protective Equipment**Pictograms****Respiratory**

- In case of insufficient ventilation, use NIOSH approved respiratory protection.

Eye/Face

- Wear chemical splash safety goggles.

Hands

- Impervious gloves.

Skin/Body

- If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Section 9 - Physical and Chemical Properties**Information on Physical and Chemical Properties**

Material Description			
Physical Form	Liquid	Appearance/Description	Clear light amber to medium brown liquid.
Color	light amber to medium brown.	Odor	Strong, unpleasant, varnish-like.
Odor Threshold	No data available		
General Properties			
Boiling Point	440 °F(226.6667 °C)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	4.6 (1% aq. solution)
Specific Gravity/Relative Density	= 1.036 Water=1	Density	No data available

Bulk Density	8.42 lb/gal	Water Solubility	Insoluble
Viscosity	< 100 Centipoise (cPs, cP) or mPas		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	188 °F(86.6667 °C) TCC (Tagliabue Closed Cup)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Excessive heat >100°F. Heat, sparks, open flame, other ignition sources, and oxidizing conditions.

Incompatible materials

- Heat, strong acids, strong bases and oxidizing agents.

Hazardous decomposition products

- Thermal decomposition may produce toxic gases including oxides of carbon.

Section 11 - Toxicological Information

Information on toxicological effects

	CAS	
Starbar Prolate/Lintox-HD Insecticidal Spray & Backrubber for Livestock	NDA	Acute Toxicity: Ingestion/Oral-Rat LD50 • 362 mg/kg; Inhalation-Rat LC50 • >2.1 mg/L 4 Hour(s); Skin-Rabbit LD50 • >2100 mg/kg; Irritation: Eye-Rabbit • Mild irritation; Skin-Rabbit • Mild irritation

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral 4
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Mild Irritation 2B
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met

Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 2
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 1; Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
STOT-RE	OSHA HCS 2012 • Classification criteria not met

Potential Health Effects

Inhalation

Acute (Immediate)

- May affect the central nervous system. Symptoms may include dizziness or drowsiness. Contains phosmet which produces cholinesterase inhibition in experimental animals. Symptoms of cholinesterase inhibition include salivation, sweating, headache, nausea, muscle twitching, tremors, uncoordination, blurred vision, tears, abdominal cramps, diarrhea, and chest discomfort. Severe cases of cholinesterase inhibition may lead to convulsions, pulmonary edema, respiratory failure, and death.

Chronic (Delayed)

- No data available

Skin

Acute (Immediate)

- Causes skin irritation.

Chronic (Delayed)

- No data available

Eye

Acute (Immediate)

- Causes eye irritation.

Chronic (Delayed)

- No data available

Ingestion

Acute (Immediate)

- May affect the central nervous system. Symptoms may include dizziness or drowsiness. Contains phosmet which produces cholinesterase inhibition in experimental animals. Symptoms of cholinesterase inhibition include salivation, sweating, headache, nausea, muscle twitching, tremors, uncoordination, blurred vision, tears, abdominal cramps, diarrhea, and chest discomfort. Severe cases of cholinesterase inhibition may lead to convulsions, pulmonary edema, respiratory failure, and death. Aspiration hazard - small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema. Harmful if swallowed.

Chronic (Delayed)

- No data available

Mutagenic Effects

- Phosmet is not a mutagen.

Carcinogenic Effects

- Naphthalene is listed as a suspected human carcinogen by NTP and IARC. No other components present at 0.1% or greater are listed by IARC, OSHA or NTP.

Carcinogenic Effects			
	CAS	IARC	NTP
Naphthalene	91-20-3	Group 2B-Possible Carcinogen	Evidence of Carcinogenicity

Reproductive Effects

- Phosmet: no known reproductive effects.

Section 12 - Ecological Information

Toxicity

Components		
Phosmet (11.75%)	732-11-6	Aquatic Toxicity-Fish: NOEC <i>Rainbow Trout</i> 0.0032 mg/L [Chronic] LC50 <i>Blue gill</i> 0.07 mg/L [Acute] LC50 <i>Sheepshead minnow</i> 0.17 mg/L [Acute] Aquatic Toxicity-Crustacea: LC50 <i>Gammarus fasciatus (amphipod)</i> 0.002 mg/L [Acute] LC50 <i>Mysid shrimp</i> 0.0016 mg/L [Acute] NOEC <i>Daphnia magna</i> 0.0008 mg/L [Chronic] NOEC <i>Mysid shrimp</i> 0.00051 mg/L [Chronic]

Persistence and degradability

- No data available

Bioaccumulative potential

- No data available.

Mobility in Soil

- No data available

Other adverse effects**Potential Environmental Effects**

- This product is toxic to aquatic organisms, including fish and invertebrates. This product is highly toxic to bees.

Section 13 - Disposal Considerations**Waste treatment methods****Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	RQ = 100 lbs. Naphthalene
IMO/IMDG	UN 3082	Packaging 5 L or greater: Environmentally hazardous substance, liquid, n.o.s. (Phosmet)	9	III	Marine Pollutant
IATA/ICAO	UN 3082	Packaging 5 L or greater: Environmentally hazardous substance, liquid, n.o.s. (Phosmet)	9	III	Acute Aquatic Toxicity

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information

IMO/IMDG • No data available

IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic, SARA Title III Section 313

FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

WARNING

Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.

Hazards to Humans and Domestic Animals

May be fatal if swallowed. Causes substantial but temporary eye injury. Harmful if absorbed through skin. Do not get in eyes, or on clothing. Avoid contact with skin. Wear protective eyewear (goggles, face shield, or safety glasses), long-sleeved shirt, long pants, shoes and socks, and chemical-resistant gloves (barrier laminate or viton, selection category G).

First Aid •

If swallowed • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. If in eyes • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. • Call a poison control center or doctor for treatment advice. If on skin or clothing • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-347-8272 [1-800-766-7661] for emergency medical treatment information. NOTE TO PHYSICIAN/VETERINARIAN: Probable mucosal damage may contraindicate the use of gastric lavage. PROLATE®/LINTOX®-HD is an organophosphate insecticide and a cholinesterase inhibitor. If signs of cholinesterase inhibition are present, atropine is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine. If ingested, do not induce vomiting. May present aspiration hazard. Usual symptoms of organophosphate poisoning in humans include: headache, blurred vision, weakness, nausea, discomfort in the chest, vomiting, abdominal cramps, diarrhea, salivation, sweating, pin-point pupils. Usual symptoms of poisoning in animals include: salivation, labored breathing, gastrointestinal disturbance, tremors, staggering, and pin-point pupils.

Environmental Hazards •

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters or rinsate. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. This chemical can contaminate surface water. Under some conditions, it may have a high potential for runoff into surface water after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow groundwater, areas with in-field canals or ditches that

drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlying tile drainage systems that drain to surface water. Do not allow spray to drift from the application site and contact people, structures people occupy at anytime and the associated property, parks and recreation areas, nontarget crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals. This product is highly toxic to bees exposed directly to residues. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your cooperative Agricultural Extension Service.

Physical or Chemical Hazards • Do not use or store near heat or open flame
Protect from temperatures below 20°F.

Inventory		
Component	CAS	TSCA
Naphthalene	91-20-3	Yes
Phosmet	732-11-6	No
Solvent naphtha	64742-94-5	Yes

United States

Environment

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Naphthalene	91-20-3	100 lb final RQ; 45.4 kg final RQ
• Solvent naphtha	64742-94-5	Not Listed
• Phosmet	732-11-6	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Naphthalene	91-20-3	0.1 % de minimis concentration
• Solvent naphtha	64742-94-5	Not Listed
• Phosmet	732-11-6	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• Naphthalene	91-20-3	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145
• Solvent naphtha	64742-94-5	Not Listed
• Phosmet	732-11-6	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

• Naphthalene	91-20-3	waste number U165
• Solvent naphtha	64742-94-5	Not Listed
• Phosmet	732-11-6	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

• Naphthalene	91-20-3	
• Solvent naphtha	64742-94-5	Not Listed
• Phosmet	732-11-6	Not Listed

Section 16 - Other Information

Revision Date • 01/June/2016

Last Revision Date • 01/June/2016

Preparation Date

- 01/June/2016

Disclaimer/Statement of Liability

- The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.