

Material Safety Data Sheet
Smoke Tester Spray
Section 1 - Product Information

Model Number: AH-03128S
Company Name: Horing Lih Industrial Co., Ltd
Product Name: Smoke Tester Spray
Product Class: Aerosol Product

Section 2 - Hazardous Ingredients

Ingredient %	Occupational Exposure Limits		Vapor Pressure mm Hg
	TLV	TWA	
Butane, 100% (CAS 106-97-8)	600 ppm		70 psig max. @ 70° F

** = Components marked with a double asterisk are present above the De minimum cut off level and subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. N/A = Not available

Section 3 - Physical Data

Appearance: Clear, colorless liquid
Odor: Sweet Petroleum
Boiling Range (Aerosol): -25.1 to +31° F
Evaporation Rate (Aerosol): Immediate @ T above -25.1° F
Vapor Density (Aerosol): Heavier than air
% Volatile by Weight (Aerosol): < 100%
Weight per Gallon (Aerosol): 4.5 # / Gal

Section 4 - Fire and Explosion Hazard Data

Flammability Rating (Aerosol): 140 (Flammability=4, Health=1, Reactivity=0)
Extremely Flammable (R12)

Flashpoint: (test method) 138° TOC (Test Method) 445° (229° C) ASTM Method D93, Pensky- Martens Closed Tester.

Auto Ignition Temperature: 875°

Extinguishing Media: Foam, CO2 or Dry Chemical

Unusual Fire and Explosion Hazards: Aerosols may burst at temperatures of 120° F. Product is extremely flammable under explosive conditions.

Fire Fighting Procedures: Keep aerosols cooled with water and remove them from danger as soon as possible. If aerosols are bursting, stay clear, until bursting is completed. Aerosols can be projectiles when bursting. This product is toxic to fish. Do not allow runoff into lakes, streams, tidal marshes, or estuaries. Isolate from oxidizers, heat, sparks, electric equipment and open flame.

Section 5 - Health Hazard Data

Effects of Overexposure

Eyes: may cause stinging, tearing, redness, swelling, blurred vision and possible freeze burns.

Skin: Liquid can cause severe freeze burns similar to frostbite.

Inhalation: Inhalation of vapor may produce anesthetic effects and feeling euphoria. Prolonged over-exposure can cause rapid breathing, headache, dizziness, narcosis, unconsciousness, and death from asphyxiation, depending on concentration and time of exposure.

Ingestion: Aspiration hazard!

Primary Routes of Entry: Inhalation.

Emergency and First Aid Procedures

Eyes: Flush with plenty of water for 15 minutes, get medical attention.

Skin: Flush with plenty of water for 15 minutes. If any irritation persists, get medical attention if there is evidence of tissue damage.

Inhalation: Harmful by Inhalation (R20). Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Keep person warm and quiet. Get medical attention.

Ingestion: DO NOT induce vomiting! Get medical attention IMMEDIATELY!

Section 6 - Reactivity Data

Stability: Stable

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Thermal decomposition may yield: Carbon Monoxide or Volatile Hydrocarbon Vapors.

Conditions to Avoid: Open flame, heat, sparks, electrical equipment or any means which can cause high temperatures at or above 120° F.

Materials to Avoid: Strong oxidizing agents or reducing agents, strong acids and bases.

Section 7 - Spills or Leaks Procedures

Steps to be Taken

Small leaks can be mopped or wiped immediately. Remove materials to out-of-doors or to a source of adequate ventilation and storage. Large leaks should be handled as follows: Evacuate area. Contain liquid; transfer to closed metal containers. Avoid open flames, sparks and heat sources. Keep out of water supplies. Do not apply directly to lakes, streams, tidal marshes, or estuaries. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal wastes.

Waste Disposal

Dispose in accordance with local, state and federal regulations.

Do not puncture or incinerate containers.

Section 8 - Safe Handling and Use Information

Respiratory Protection: Use only with adequate ventilation. Use of protective equipment is necessary if PEL and TLV levels are exceeded. In enclosed spaces use a NIOSH approved organic vapor/mist cartridge respirator or positive-pressure self-contained breathing apparatus.

Ventilation: Large opened areas or sufficient mechanical (General and/or Local Exhaust) ventilation to maintain exposure below PEL and TLV levels.

Protective Equipment: Gloves, Safety Glasses, respiratory protection, long-sleeve shirt depending on levels and length of exposure.

Hygienic Practices: Observe normal hygienic practices. Wash hands after use. Wash clothing before reuse.

Section 9 - Special Precautions

Handling and Storage: Product should be kept at temperatures below 120° F in a dry, cool area. Product is extremely flammable. Keep away from heat, sparks, and flame. Use only with adequate ventilation. Avoid breathing of vapor or mist. Wear OSHA standard goggles or face shield. Wear gloves, apron and footwear impervious to this material.

Keep out of the reach of children (S2)

Section 10 – Shipping Information

1. DOT: Carton marked with :
Shipping
Name: Consumer Commodity
Hazard Class: ORM-D

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Section 11 – Toxicological Information

Acute Toxicity

When used as directed this product should pose essentially no risk to users.

Do not spray directly upon the skin or eyes, or frostbite may result from the rapid evaporation of the propellant.

Do not inhale. Use only with adequate natural or forced air ventilation.

See Section 8 for other safe handling precautions.

In the unlikely event of a warehouse or other fire, leave the area immediately.

Combustion of this product will produce carbon dioxide, water vapor, traces of carbon monoxide, and traces of other pyrogens and oxides. Smoke production should be minimal.

Chronic Toxicity

The components of this product have not been identified as mutagens, carcinogens, or those contributing to birth defects.

Repeated excessive use in non-ventilated areas may result in respiratory problems.

Section 12 – Ecological Information

Ecological Dissipation

The great Preponderance of this product is gaseous, under ordinary atmospheric conditions. It will rapidly dissipate via natural or artificial ventilation systems. These gaseous ingredients have half-lives of about 5 to 12 days in ambient air, during which they are converted to carbon dioxide and water vapor.

Environmental Compatibility

Emissions of the very large proportion of hydrocarbon propellants are quickly broken down chemically in the air, forming innocuous compounds. The (proprietary) active ingredient is also decomposed, but more slowly, with the formation of oxygen compounds. It is insoluble in water. It's action on aquatic life forms, if any, is unknown.

Section 13 – Disposal Considerations

Water Disposal

Do not puncture or incinerate any aerosol container.

Consider city, county, state or national regulations. The U.S.EPA has determined that commercially emptied aerosol cans may be recycled, where such facilities exist. Most government entities support this position. Alternatively, emptied cans may be consigned to approved sanitary waster landfills. Aerosols are non-refillable-U.S. DOT (Section 193)

The product has a very long service life. Cans should not be replaced due to age. It is unsafe to dispense large amounts of product, simply to empty a can for disposal, unless done in the open air and by spraying downwind to prevent excessive inhalation.

Section 14 – Transport Information

General

See Section 10 for basic details.

Designation of Product

Aerosols, flammable

Ship in outside cartons marked with "ORM-D", and weighing not more than 65 pounds each.

Note as "Consumer Commodity"

Shippers to be marked as "LEVEL 3", on any one vertical panel.

Proper Shipping Name: UN 1950, Aerosols, 2.1, Ltd. Qty.

Ground Transportation

USA- Approved for rail, truck, USPS and UPS when properly marked and documented.

Europe - ADR/RID - Class 2.1 gases – compressed, dissolved or liquefied under pressure.

International Maritime Transportation

Must comply with IMDG regulations (Issue 2000, Volume 2, page 93. For UN-1950 aerosols.)

Section 15 – Regulatory Requirements

Classification and Labeling

USA- Product complies with CPSC (Consumer Product Safety Commission) regulations.

USA- Product complies with OSHA (Occupation Health and Safety Administration) requirements in this MSDS, under their Hazard Communication Rule, 29 CFC 1910.1200.

EC- Labels for products distributed in Europe comply with EC guidelines, EC Directives and national laws.

Risk phases

Danger (Signal word)

Contents under pressure

Extremely Flammable – with flame icon

Safety phrases

Do not puncture or incinerate.

Do not use near fire, heat or sparks.

Do not puncture or incinerate container, even when empty.

Store at temperatures below 120F (48C.)

Use and store only in well ventilated areas.

Intentional misuse by deliberately concentrating and inhaling can be harmful or fatal.

Keep out of the reach of children.

Contents of this container can ignite under certain circumstances.

U.S. Superfund and Reauthorization Act (SARA) Title III (1986)

None of the ingredients in this product are required to be reported under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) reference 40 CFR 117,302 and table 40 CFR 117.3 – or in the “Extremely Hazardous Substances” category, 40 CFR 355.

Under MSDS Requirements (40-CFR-370) “EPA Hazards” may be reportable as:

Extremely flammable

Acute health hazard – irritant

Immediate release of pressure – compressed gas

Under 40-CFR 372 (Toxic Chemical Release Reporting) the product does not contain any chemical in the official listing.

Proposition 65 (California)

None of the ingredients of this product are on the Proposition 65 list of toxic chemicals.

Federal Water Pollution Control Act (40 CFR 401.15)

None of the ingredient of this product are on the list of toxic water pollutants.

Toxic Substances Control Act (TSCA)

All the ingredients of this product are on the official listing.

Global Warming Substances Control Act; AB-32 (California)

None of the ingredients of this product are listed as global warming agents.

Federal Clean Air Act Amendments (1990)

This product category is not listed as a source of volatile organic compounds, to be controlled via State Implementation Programs (SIPs)

Air Resources Board (ARB) of California

The product category is not currently listed as a source of volatile organic compounds.

Section 16 – Miscellaneous Information**National Fire Prevention Association (NFPA) Hazard Rating**

Fire (4)
Health (1)
Reactivity (1)
Nuclear (1)

**National Fire Prevention Association (NFPS Code 30-B) Storage Fire Hazard Rating
“LEVEL 3” (Outside shipper only)****Additional Safety Data**

100% Ozone Safe (Stratospheric ozone)
Environmentally Safe
Contains not chlorinated organic compounds
Contains no phosphates or preservatives
Contains no heavy metal compounds
Anhydrous formulation

NOTE: This revision, dated 8/15/08, replaces those dated 3/07/08 and 7/20/07. It is subject to changes without notice, as new regulations or information becomes available.

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