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MSDS (MATERIAL AND SAFETY DATA SHEET)

1. Product and Company Identification:

<u>Trade/Commercial Name</u>	Ethanol denatured with Androstenone as an additive for swine products: HogMate™
<u>Formula</u>	C ₂ H ₆ O
<u>Chemical Family</u>	Alcohols
<u>Synonyms</u>	Ethanol; Anhydrol; alcohol; methylcarbinol; <u>Denatured alcohol</u> ; ethyl hydrate; ethyl hydroxide;
<u>UnNo</u>	1170
<u>Hazchem Code</u>	2[S]e
<u>ERG No.</u>	127
<u>EAC</u>	26

2. Composition:

Hazardous Components Ethanol denatured 99%

3. Hazards Identification

Flammable Liquid

High concentrations of vapour irritate eyes and respiratory tract.

Vapours could cause dizziness or suffocation.

Contact could irritate or burn to skin and eyes.

Fire could produce irritating or poisonous gases.

Runoff from fire-control or dilution water could cause pollution.

4. First Aid Measures

First Aid Skin No specific treatment.

First Aid Eyes Flush eyes with water for 15 minutes.
Hold eyelids open while washing.

First Aid Ingested No specific treatment. First Aid

Inhalation Remove from contaminated area.
If not breathing give artificial respiration.
If breathing of victim is difficult administer oxygen for a maximum period of one hour.

5. Fire Fighting Measures

SMALL FIRES: Dry chemical, CO₂, Halon, water spray or alcohol foam.

LARGE FIRES: Water spray, fog or alcohol foam is recommended.

Move container from fire area if you can do it without risk.

Cool containers that are exposed to flames with water from the side until well after the fire is out. Stay away from ends of tanks.

For massive fire in cargo area, use unmanned hose holder or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Withdraw immediately in case of rising sound from venting safety device or any discolouration of tank due to fire.

Keep unnecessary people away; isolate hazard area and deny entry.

Stay upwind; keep out of low areas.

Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.

IF TANK, RAIL CAR OR TANK TRUCK IS INVOLVED IN FIRE, ISOLATE FOR 1 KILOMETRE IN ALL DIRECTIONS.

6. Accidental Release Measures

Breathing apparatus for fire only

Dilute (substance may be washed to drain with a lot of water)

PRECAUTIONS:

Restrict access to area.

Provide adequate protective equipment and ventilation.

Remove sources of heat and flame.

Notify occupational and environmental authorities.

SPILL OR LEAK:

Shut off ignition sources; no flares, smoking or flames in hazard area.

Stop leak if you can do it without risk.

Water spray may reduce vapor; but it may not prevent ignition in closed spaces.

SMALL SPILLS:

Takeup with sand or other noncombustible absorbent material and place into containers for later disposal.

LARGE SPILLS:

Dike far ahead of liquid spill for later disposal.

7. Handling And Storage

Separation of at least 3M from the following classes is recommended.

Corrosives

Fire separation of at least 5M or 4Hr fire resistant wall from the following classes is recommended.

Flammable Gases

Flammable Solids

Spontaneously Combustibles Dangerous When Wet

Poison

Storage in the same room or space is prohibited with the following classes:

The rooms or spaces should be at least 10M apart.

Explosives

Poisonous Gases

Oxidizing Agents

Organic Peroxides

Radioactive

8. Exposure Controls/Personal Protection

<u>Occupational Exposure Limits</u>	T W A OEL-RL		SHORT TERM OEL-RL	
	PPMa)	MG/M3b)	PPMa)	MG/M3b)
	1000	1900	-	-

Controls

The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure.

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release.

Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside.

Supply sufficient replacement air to make up for air removed.

Have a safety shower/eye wash fountain readily available in the immediate work area.

Personal Protection

If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles & face shield, boots, imperious gloves, coveralls, & respiratory protection.

Have appropriate equipment available for use in emergencies.

9. Physical & Chemical Properties A

colourless volatile liquid with wine odour.

Boiling Point: 78 oC

Relative Density: vapour: 1,59 (air:1)

liquid: 0,79 (water:1)

Vapour Pressure: 5,6 kpa

Flash Point: 12 oC

Flammable Limits: 3,3 to 19%

Autoignition Temperature: 423 oC

Completely soluble in water.

Forms explosive mixtures with oxidising agents.

10. Stability And Reactivity Conditionsto

Avoid Risk of violent reaction.

Incompatible Materials

Other

11. Toxicological Information

12. Ecological Information

No ecological problems are expected when the product is handled and used with due care.

13. Disposal Considerations

Disposal Method Product There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste.

The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations.

We recommend that you contact the authorities in charge or approved

waste disposal companies which will advise you on how to dispose of special waste.
Disposal Method Packaging Disposal in accordance with local legal provisions.

14. Transport Information

<u>UNNo</u>	1170	<u>Hazchem Code</u>	2[S]e
<u>ERGNo.</u>	127	<u>EAC</u>	26
<u>IMDG-Shipping Name</u>	ETHANOL		
<u>IMDG Code Marine</u>	3074	<u>IMDG-Packaging Group</u>	III
<u>Pollutant</u>	Yes		
<u>Class</u>	Class: 3	Flammable Liquid	Group: III
<u>Subsidiary Risks</u>	None		
<u>Tremcard Number</u>	32/30G30		

15. Regulatory Information

<u>EECHazard Classification</u>	3
<u>Risk Phrases</u>	11 - Highly flammable
<u>Safety Phrases</u>	7 - Keep container tightly closed
	16 - Keep away from sources of ignition - no smoking

National Legislation

16. Other Information

Reason for Alteration: General update.

The information contained herein is based on the present state of our knowledge.
It characterizes the product with regard to the appropriate safety precautions.
It does not represent a guarantee of the properness of the product.