

MATERIAL SAFETY DATA SHEET

AROMA TECH
130 INDUSTRIAL PKWY.
SOMERVILLE, NJ 08876
EMERGENCY PHONE# 1-800-255-3924
THIS PRODUCTS EMERGENCY CODE IS: 5

HEALTH: 1
FLAMMABILITY: 1
REACTIVITY: 0
PERSONAL
PROTECTION: C

I. GENERAL INFORMATION

KAZ INC.
1 VAPOR TRAIL, 4411 RT. 9
HUTSON, NY 12534
ATTN: QC/Safety & Compliance

Product name: BLEND #Z APE-45
Reference number: 306-822
Date issued: 1/13/99
This supercedes any previous MSDS

II. PHYSICAL PROPERTIES

Physical State: PELLETS
Refractive Index @ 25° C: N/A
Specific Gravity @ 25° C: N/A
Density @ 25° C: N/A
Color: PALE YELLOW
Carrier Resin: Polyethylene

Vapor Pressure @ 25° C: N/A
VOC %: N/A
Melting Point (CC) (°F): >200
Flash Point (CC) (°F): >200
Soluble In: OIL
Load: 45%

III. PHYSICAL HAZARDS

Type Of Hazard: NOT REGULATED

Extinguishing Media: Foam, CO2, Dry Chemical
Special Fire Fighting Procedures: Self Contained Breathing Apparatus, Protective Clothing.
Conditions To Avoid: Heating this product may produce toxic fumes.
Incompatibility With Other Materials: May react with strong oxidizing agents, such as chlorates, peroxides, nitrates, etc.
Unusual Fire, Explosion Hazards: None found.
Hazardous Polymerization: Polymerization will not occur.
Stability: Stable

IV. HEALTH HAZARDS

WARNING!! DIRECT CONTACT WITH EYE OR SKIN MAY CAUSE IRRITATION.
BREATHING CONCENTRATED VAPORS MAY CAUSE RESPIRATORY IRRITATION.

Threshold Limit Value (TLV): Not Established
OSHA Permissible Exposure Limit (PEL): Not Established
Primary Route(s) of Entry: Skin Contact, Inhalation, Ingestion.
Effects of Overexposure: None Currently Known.

POTENTIAL HEALTH EFFECTS

EYE:

The cool material may cause slight eye irritation. However, thermal burns may result from contact with the hot material. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment.

INGESTION:

If swallowed, this substance is considered practically non-toxic to internal organs.

Tuesday, February 22, 2000

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SKIN:

The cool material may cause slight skin irritation. However, thermal burns may result from contact with the hot material. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. If absorbed through the skin, this substance is considered practically non-toxic to internal organs.

INHALATION:

Fumes from the hot material can be unpleasant and may produce nausea and irritation of the upper respiratory tract.

V. FIRST AID PROCEDURES

EYES: If hot melted material should splash into the eyes, flush eyes immediately with fresh water for 15 minutes while holding the eyelids open. Remove contact lenses if worn. See a doctor for treatment.

INHALATION: If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

SKIN: If the hot, melted material gets on the skin, quickly cool in water. See a doctor for extensive burns. DO NOT try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin.

INGESTION: Not expected to be an ingestion problem, no first aid procedures are required.

VI. HAZARDOUS INGREDIENTS INFORMATION

The identity of individual components of this mixture is proprietary information and is regarded to be a trade secret. This mixture contains no suspected carcinogens as reported by NTP, ACGIH, OSHA or IARC at 0.1% or greater. One or more of the components present in greater than 1% concentration may present the following health effects based on evaluation of the individual components: May cause eye, skin or respiratory irritation.

The above effects are based on evaluation of individual components and the relevancy to the mixture as a whole or to humans is unknown. Excessive exposure may cause similar effects.

In humans, one or more of the individual components may cause the following health effects: May be irritating to eyes and skin.

VII. PERSONAL PROTECTION

EYES: If this material is used at elevated temperatures, wear chemical goggles, a face shield, or safety glasses.

RESPIRATORY: In well-ventilated areas, respiratory protection is not normally required. In confined, poorly ventilated areas, the use of "Noish" approved respiratory protection is recommended.

EQUIPMENT APPAREL: The use of chemical resistant gloves is recommended. If the material is used at elevated temperatures, skin contact can be minimized by wearing protective clothing. Acceptable industrial hygiene practices should be maintained.

VENTILATION: Provide adequate ventilation. Use local exhaust fan if necessary.

VIII. STORAGE AND HANDLING

It is recommended that this material be stored in a cool, well-ventilated area, avoiding open flames or other sources of ignition.

IX. SPILL, RELEASE AND WASTE DISPOSAL PROCEDURES

SPILL OR RELEASE: If liquid material is spilled, allow it to cool and solidify before proceeding with disposal methods. For spilled pellets, sweep spilled material and discard in approved disposal container.

DISPOSAL PROCEDURES: Used containers may contain flammable or combustible residue. Dispose of in accordance with local, state and federal regulations.

X. TOXIC SUBSTANCES AND CONTROL ACT

The components of this product are found in the TSCA inventory.

XI. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III NOTICE

This product is not subject to reporting requirements of Section 313 of Title III of Superfund Amendments And Reauthorization Act of 1986 and 40 CFR part 372.

EVA

Ethylene Vinyl Acetate
 乙 烯 醋 酸 乙 烯 酯 (橡 皮 膠)

HYUNDAI
 現 代

Items 項目	Test Methods 試驗方法 (ASTM)	Unit 單位	ES430
Mechanical Properties 機械性質			
Tensile Strength 拉伸強度	D-638	kg/cm ²	230
Elongation at Break 延伸率	D-638	%	700
Hardness 肖氏硬度	D-2240	D-Scale	39
Brittleness Temp. 低溫脆點	D-746	°C	<70
Thermal Properties 熱性質			
Vicat Softening Point 軟化點	D-1525	°C	60
Physical Properties 物理性質			
Density 密度	D-1505	g/cm ³	0.935
VA Content 乙 烯 醋 酸 含 量	H P C	wt.%	18
2% Secant Modulus	D-638	kg/cm ²	300
Melt Flow Index 熔融指數	D-1238	g/10min	2.2
Melt Temperature (Tm) 熔融溫度	D-2117	°C	83
Electrical Properties 電氣性質			
Dielectric Constant 透電率	D-150		2.33
Dielectric Tangent	D-160	x10 ⁻³	0.002
Dielectric Breakdown Voltage	D-495	KV/mm	0.5
Volume Resistance 體積固有阻抗	D-257	Ω cm	10 ¹⁵

EVA

Ethylene Vinyl Acetate 乙 烯 醋 酸 乙 烯 酯 (橡 皮 膠)

HYUNDAI
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Technic

Item 項目	Test Methods 試驗方法 (ASTM)	Unit 單位	ES430	
Mechanical Properties 機械性質				
Tensile Strength 拉伸強度 Tensile Strength 拉伸強度	D-638 D-438	kg/cm ² kg/cm ²	230	230
Elongation at Break 延伸率 Elongation at Break 延伸率	D-638 D-838	%	700	700
Hardness 肖氏硬度 Hardness 肖氏硬度	D-2240 D-2240	D-Scale D-Scale	38	38
Brittleness Temp 低溫脆點 Brittleness Temp. 低溫脆點	D-746 D-746	°C	<70	C-70
Thermal Properties 熱性質				
Vicat Softening Point 軟化點 Vicat Softening Point 軟化點	D-1525 D-1525	°C	60	60
Physical Properties 物理性質				
Density 密度 Density	D-1505 D-1505	g/cm ³ g/cm ³	0.936	0.936
VA Content VA Content Z VA Content Z	HPC H P C	wt. % wt. %	18	18
2% Secant Modulus 2% Secant modulus 2% Secant modulus	D-638 D-638	kg/cm ² kg/cm ²	300	300
Melt Flow Index 熔融指數 Melt Flow Index	D-1238 D-1238	g/10min g/10min	2.2	2.2
Melt Temperature (Tm) 熔融溫度 Melt Temperature (Tm)	D-2117 D-2117	°C	83	83
Electrical Properties 電氣性質				
Dielectric Constant 介電率 Dielectric Constant	D-150 D-150		2.83	2.83
Dielectric Tangent 介電正切 Dielectric Tangent	D-160 D-160	$\times 10^{-3}$	0.002	0.002
Dielectric Breakdown Voltage 介電擊穿電壓 Dielectric Breakdown Voltage	D-495 D-495	KV/mm KV/mm	0.5	0.5
Volume Resistance 體積固有阻抗 Volume Resistance	D-257 D-257	Ω cm ohm-cm	10^{15}	10^{15}