

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME..... KAMI Antinewton Spray
PRODUCT CODE..... SX 2001
CHEMICAL FAMILY..... Solvent mixture Aerosol in Liquefied Gas

MANUFACTURER

=KAMI= CHEM.-TECHN.-SPEZIALERZEUGNISSE
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2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>%</u>	<u>Exposure Limit</u>
Ethanol	64-17-5	50 – 55	1000 ppm TWA ACGIH
Propane *	74-98-6		1000 ppm PEL OSHA
Butane *	106-97-8	}40 – 45	800 ppm TWA ACGIH 800 ppm PEL OSHA

*Extremely flammable liquified gas

3. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

ROUTE(S) OF ENTRY.....: Skin and eye contact with liquids, vapor and inhalation.

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

This product contains:

Ethanol, which may cause skin and eye irritation. Inhalation of high concentrations of vapor, in excess of the TLV, may cause headache, nervousness, dizziness, tremors, fatigue, nausea and necrosis. However, when used as intended, this product has not been observed to cause any adverse effect.

Butane, which causes drowsiness and is an asphyxiant. Butane is a narcotic at high concentrations.

Propane, which is an asphyxiant. Anesthetic properties may be evident at high concentrations. Prolonged exposure may cause rapid respiration, air hunger, incoordination, fatigue, nausea, loss of consciousness and death.

CARCINOGENICITY:

NTP.....: No
IARC.....: No
OSHA.....: No

4. FIRST AID MEASURES

SKIN: Remove contaminated clothing and shoes. Wash with soap or mild detergent and large amounts of water. Get medical attention if irritation occurs.

EYES: Hold eyes open and flush for at least 15 minutes with large amounts of water. Seek medical attention.

INGESTION: Do not induce vomiting. Give two glasses of water to dilute stomach contents. Never give anything by mouth to an unconscious person. Consult physician.

INHALATION: Remove to fresh air immediately. If breathing has stopped give artificial respiration. If breathing is difficult administer oxygen. Consult physician if irritation of respiratory passage occurs.

5. FIRE AND EXPLOSION DATA

- FLASH POINT.....: Product contains propane and butane as aerosol propellents. Propane and butane, under normal pressure, are extremely flammable gases.
- FLAMMABLE LIMITS.....: UEL: 0.6 % by volume
- EXTINGUISHING MEDIA.....: Dry chemical, carbon dioxide, or foam.
- SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus and full protective clothing. Use water only to cool packages in fire area.

6. ACCIDENTAL RELEASE MEASURES:

SPILL AND LEAK PROCEDURES: Remove all sources of ignition. Wearing appropriate personal protective equipment, contain spills onto inert absorbent and place in suitable containers.

7. HANDLING AND STORAGE

STORAGE: Store closed containers in cool area away from all sources of ignition, away from strong oxidizing agents and nitric and sulfuric acids. Container is pressurizes. Storage above 50°C can increase pressure and can may burst.

HANDLING: Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground transfer containers and equipment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local exhaust ventilation or respiratory protection to maintain employee exposure below TLV.

RESPIRATORY PROTECTION: If airborne concentration poses a health hazard, becomes irritating or exceeds recommended limits, use a NIOSH approved respirator in accordance with OSHA Respirator Protection requirements under 29 CFR 1910.134.

SKIN PROTECTION: Clothing suitable to prevent skin contact, and gloves.

EYE PROTECTION: Safety goggles with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Aerosol
COLOR:	Colorless
SOLUBILITY IN WATER:	Soluble
SPECIFIC GRAVITY:	0.67 g/cm ³
VAPOR PRESSURE:	3.5 mbar @ 20°C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide, and hydrocarbon byproducts.
POLYMERIZATION:	Will not occur.
INCOMPATIBILITIES:	Avoid sparking devices or ignition sources, and oxidizing agents.

11. TOXICOLOGICAL INFORMATION

See Section 3- Human Effects of Overexposure.

12. ECOLOGICAL INFORMATION

Avoid contamination of ground water or waterways.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State or Local regulations. Do not incinerate closed containers: explosion hazard.

14. TRANSPORT INFORMATION (Not meant to be all inclusive)

DOT SHIPPING NAME:	Aerosols, flammable, n.o.s. (Propane, Butane, Solvent naphtha)
HAZARD CLASS:	2.1
UN#:	UN 1950
LABEL:	Flammable liquid

15. REGULATORY INFORMATION (Not meant to be all inclusive)

All components are on the TSCA Inventory.

16. OTHER INFORMATION

HAZARDOUS MATERIALS INFORMATION LABEL (HMIS)

HAZARD CODE

RATING

4= EXTREME

FLAMMABILITY: 4

3= HIGH

HEALTH: 2

2= MODERATE

REACTIVITY: 0

1= SLIGHT

SPECIAL: 0

0= INSIGNIFICANT

To the best of our knowledge, the information contained in this MSDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this MSDS relate only to the specific material designated herein. We do not assume any liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.

WARNING!
HIGHLY FLAMMABLE
HARMFUL IF INHALED
MAY CAUSE SKIN AND EYE IRRITATION

Product contains ETHANOL at a concentration of above 50 %; contains Butane and Propane at a total concentration above 40 % (used as propellant).

VOC = 100% (0,160 kg/250 ml)

Keep away from heat and flame and ignition sources.

Avoid breathing vapor.

Avoid contact with Eyes or skin.

Use with adequate ventilation or respiratory protection to keep exposure below TLV Values.

FIRST AID: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. In case of persistent irritation consult physician.

In case of eye contact, immediately flush eyes with large amounts of water for about 15 minutes. Get medical attention.

In case of skin contact, wash with soap or mild detergent and large amounts of water. Get medical attention if irritation occurs.

Fire fighting: In case of fire, use alcohol foam, dry chemical, or carbon dioxide. Use water spray only to cool containers in fire area.