

Emergency Number: 1-800-424-9300 (Chemtrec)

MLS Number: MLS 661102
MSDS Revision Date: 11/10/2009

1. PRODUCT IDENTIFICATION

~~K-GRIP 701 Foam & Fabric Aerosol Spray Adhesive~~

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Acetone	67-64-1	15-25%	R11, R36, R66 R67	F, Xi
Hexane	110-54-3	15-25%	R11, R38, R48/20, R62, R65, R67, R51/53	F, Xn
Proprietary Flammable Propellant		25-35%	R2, R12, R16, R37/38, R44, R67	F+, E, Xi
Additives	NA	<1%	NA	NA
Proprietary Rubbers & Resin- Non-Hazard		Balance	NA	NA

3. HAZARD IDENTIFICATION

EU Main Hazards



R11 Highly flammable

R38 Irritating to skin

R48/20 Harmful; danger of serious damage to health by prolonged exposure through inhalation

R62 Possible risk of impaired fertility

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R65 Harmful: May cause lung damage if swallowed

R67 Vapors may cause drowsiness and dizziness

Routes of Entry;

Absorption, Eye contact, Ingestion, Inhalation, Skin contact

Carcinogenic Status;

Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs;

Central Nervous System Skin Eye Liver Kidney Respiratory System

Health Effects

Eyes; Liquid, mist or vapor may cause pain, transient irritation and superficial corneal effects.

Health Effects Skin

Material may cause irritation. Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis. Material can be absorbed through the skin and cause effects similar to those resulting from inhalation.

Health Effects Ingestion

Swallowing may have the following effects: abdominal pain, vomiting, central nervous system depression, kidney damage, liver damage, testis damage. Aspiration into the lungs may occur during ingestion or vomiting causing lung damage. A large dose may have the following effects: systemic effects similar to those resulting from inhalation

Health Effects Inhalation

Exposure to vapor may have the following effects: irritation of nose, throat and respiratory tract central nervous system depression dizziness drowsiness headache mental confusion

Exposure to vapor at high concentrations may have the following effects: nerve damage leading to numbness and muscle weakness, lung damage, liver damage, kidney damage

4. FIRST AID MEASURES

Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

Immediately flood the skin with large quantities of water for at least 15 minutes, preferably under a shower. Remove contaminated clothing and continue washing. Contaminated clothing should be washed or dry-cleaned before reuse. Obtain medical attention if blistering occurs or redness persists.

Ingestion

Do not induce vomiting. Have victim drink 13 glasses of water to dilute stomach contents. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Inhalation

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Advice to Physicians

Mineral oil, baby oil, makeup remover or other similar mild solvent may be used to remove the sticky resin residue left by the adhesive.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Use foam, dry chemical or carbon dioxide. Be aware of the possibility of re-ignition. Keep containers and surroundings cool with water spray.

Unusual Fire and Explosion Hazards

Vapors can travel a considerable distance to a source of ignition and flashback. Flashback can occur if air temperature exceeds flash point. Be aware of possibility of re-ignition.

For aerosol products – exposure to temperature over 54 °C may cause containers to burst and release highly flammable gas.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Wear appropriate protective clothing. Eliminate all sources of ignition. Use non-sparking scoops for flammable materials. Vapors can accumulate in low areas. Consider need for evacuation. Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer or has contaminated soil or vegetation.

7. HANDLING AND STORAGE

Keep from reach of children. Do not puncture, incinerate or place aerosol product containers in compactors. Use in well ventilated area. Use local exhaust ventilation. Avoid inhaling vapors. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use. Do not flame cut, braze or use welding torch on container. Intentional misuse by deliberately concentrating or inhaling the vapors from this product may be harmful or fatal.

Store away from sources of heat or ignition. Storage area should be: cool dry well ventilated away from incompatible materials out of direct sunlight – away from sources of ignition (heat, sparks, flames, pilot lights)

Do not store above 49 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Acetone:

NIOSH IDLH = 2500 ppm

NIOSH 8 hr TWA = 250 ppm

OSHA 8 hr TWA = 1000 ppm

Hexane:

NIOSH/IDLH = 1100 ppm

NIOSH/OSHA 8 hr TWA = 500 ppm

TWA - Time Weighted Average

IDLH – Immediately Dangerous to Life and Health

Engineering Control Measures

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

Respiratory Protection

Respiratory protection if there is a risk of exposure to high vapor concentrations. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

Hand Protection

Butyl gloves are recommended.

Eye Protection

Chemical goggles or safety glasses with side shields

Body Protection

If there is danger of splashing, wear: overall or apron

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear or Red

Odor: Solvent like

pH: NA

Specific Gravity: 0.70

Boiling Range/Point (°C): 62°C

Flash Point (PMCC) (°C): -20°C

Vapor Pressure: approx 158 mm

Solubility in Water: Insoluble

Vapor Density (Air = 1): >1

Lower Explosive Limit/Upper Explosive Limit – LEL = 1.2% and UEL = 13%

VOC <55%

HAPs – 23% (hexane)

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

Heat, sparks, flames High temperatures –sources of ignition – welding arcs – pilot lights – static electricity

Materials to Avoid

Strong oxidizing agents acids – bases reducing agents – strong oxidizers

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

oxides of carbon acetic acid – oxides of sulfur – oxides of nitrogen – various hydrocarbons

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Acetone: LD50 rat >5,800 mg/kg. LD50 rabbit 20,000 mg/kg.

Hexane: LD50 rat >20,000 mg/kg

Chronic Toxicity/Carcinogenicity

Not expected to cause long term adverse health effects.

Genotoxicity

This product is not expected to cause any mutagenic effects.

Reproductive/Developmental Toxicity

Not expected to cause any reproductive or developmental abnormalities

12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bioaccumulation

No relevant studies identified.

Ecotoxicity

Acetone: LC50 Rainbow trout (*Oncorhynchus mykiss*) 96 h 5,540 mg/l. EC50 *Daphnia magna* 48 h 7,635 mg/l

13. DISPOSAL

Dispose of in accordance with all applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near to the container. Use non-sparking tools. Do not incinerate closed containers. Dispose of containers with care.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data

Consumer Commodity, ORM-D

UN Proper Shipping Name: **Aerosols, flammable**

UN Hazard Class **2.1**

UN Number **UN1950**

Packaging Group: **NA**

Classification for AIR Consult current IATA Regulations prior to shipping by air.
Transportation (IATA)

15. REGULATORY INFORMATION

EU Label Information

Classification and labeling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments.

EU Hazard Symbol and Indication of Danger

Xn Harmful

N Dangerous for the environment

F Highly flammable

R phrases

R11 Highly flammable.

R38 Irritating to skin.

R48/20 Harmful; danger of serious damage to health by prolonged exposure through inhalation

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking

R67 Vapors may cause drowsiness and dizziness.

S phrases

S9 Keep container in a well ventilated place. S16 Keep away from sources of ignition. No smoking. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33 Take precautionary measures against static discharges. S36/37 Wear suitable protective clothing and gloves. S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing

All ingredients have been verified for inclusion on the EPA Toxic Substance Control Act Chemical Substance Inventory.

EINECS Listing

All ingredients in this product have not been verified for inclusion on the European Inventory of Existing Commercial Chemical Substances (EINECS) or specifically exempted.

DSL (Canadian) Listing

All ingredients in this product have been verified for inclusion on the Domestic Substance List (DSL).

MA Right To Know Law

All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at or above the de minimus concentration include: Acetone (67-64-1)

PA Right To Know Law

This product contains the following chemicals found on the Pennsylvania Hazardous Substance List:

NJ Right To Know Law

This product contains the following chemicals found on the NJ Right To Know Hazardous Substance List Acetone (67-64-1), hexane (110-54-3)

California Proposition 65

This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 302 (EHS)

This product does not contain any chemicals subject to SARA Title III Section 302.

SARA Title III Sect. 304

The following chemicals have reportable quantities: Acetone (67-64-1)5000#

SARA Title III Sect. 311/312 Categorization

Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire Hazard, Sudden Release of Pressure

SARA Title III Sect. 313

This product contains a chemical that is listed in Section 313. The following listed chemicals are present:

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Flammability 4, Health 2, Reactivity 0, Special Hazards – None

HMIS Ratings

HMIS Code for Flammability 4, Health 2, Reactivity 0, Personal Protection See Section 8

Abbreviations

N/A: Denotes no applicable information found or available

CAS#: Chemical Abstracts Service Number

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

TWA: Time Weighted Average

STEL: Short Term Exposure Limit

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer