Duncan

MATERIAL SAFETY DATA SHEET

1. COMPANY AND PRODUCT IDENTIFICATION

DUNCAN ENTERPRISES
5673 East Shields Avenue
Fresno, CA 93727
559-291-4444
559-291-9444 (Fax)

EMERGENCY TELEPHONE NUMBERS

Health Emergency:	559-291-4444	7:00 am – 3:30 pm Pacific Standard Time
Spill and Off-Hour Health Emergencies:	800-424-9300	U.S. and Canada
	703-527-3887	Outside U.S. and Canada (Collect)

Product Name: **ALEENE'S CRYSTAL CLEAR TACKY SPRAY**
Product Category: Solvent - Based Aerosol Adhesive

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Weight %	TLV-TWA ppm	TLV-STEL ppm	PEL-TWA ppm	PEL-CEILING ppm	Company TLV-TWA ppm	SKIN
Hexane	110-54-3	<25.0	50	N.E.	500	N.E.	N.E.	NO
Acetone	67-64-1	<25.0	500	750	1,000	N.E.	N.E.	NO
Propane	74-98-6	<20.0	2,500	N.E.	1,000	N.E.	N.E.	NO
Dimethyl Ether	115-10-6	<15.0	N.E.	N.E.	N.E.	N.E.	1,000	NO
C12-C14 Isoalkanes	68551-19-9	<5.0	N.E.	N.E.	N.E.	N.E.	400	NO

For explanation of abbreviations, see Section 16.

3. HAZARDS IDENTIFICATION

HMIS Hazard Ratings for Product

Health:	**2**	0 = Minimal
Flammability:	**4**	1 = Slight
Reactivity:	**0**	2 = Moderate
Personal Protection:	**See Section 8**	3 = Serious
		4 = Severe
		* = Chronic Effects

EMERGENCY OVERVIEW

Keep from reach of children. Do not puncture, incinerate, or place aerosol product containers in compactors. Containers of this material may be hazardous when emptied since containers retain product residues (vapor, liquid, and/or solid). All hazard precautions must be observed. Do not flame cut, braze or use welding torch. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

Primary Route(s) of Entry: Eye contact, Skin Contact, Skin Absorption, Inhalation
Eye Contact – Can cause severe irritation, redness, tearing, blurred vision
Skin Contact – Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis
Inhalation – Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. Overexposure may cause damage to the nervous system.
Ingestion – No information available

4. FIRST AID MEASURES

Inhalation: Remove individual to fresh air. If breathing is difficult, administer oxygen. Give artificial respiration if breathing has stopped. Keep person warm and quiet. Get medical attention.

Skin Contact: Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. Get medical attention if irritation persists. Mineral oil, baby oil, makeup remover, mineral spirits, or other similar mild solvent may be used to remove the sticky resin residue left by the adhesive.

Eye Contact: Flush eyes with large amounts of water, lifting upper and lower eyelids occasionally. Get medical attention.

Ingestion: Do not induce vomiting. Give two glasses of water if conscious. Never give anything by mouth to an unconscious person. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Flash Point:	- 156 F (Pensky-Martens Closed Cup Method)
Lower Explosive Limit:	1.0%
Upper Explosive Limit:	18.0%
Autoignition Temperature:	N.D.
Extinguishing Media:	CO_2, Dry Chemical, Foam, or Water Fog

Unusual Fire And Explosion Hazards:
Vapors are heavier than air and travel along the ground or may be moved by ventilation and ignited by ignition sources at locations distant from material handling point. For aerosol products – exposure to temperatures over 130 F may cause containers to burst releasing highly flammable gas.

Special Fire Fighting Procedures:
Wear self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode when fighting fires. Keep fire exposed containers cool with water fog.

6. ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled
Eliminate sources of ignition and ventilate area. Persons not properly equipped should be excluded from area. Stop spill at source and prevent spreading. Avoid inhalation of vapors. Avoid skin contact with liquid. Soak up on absorbent material and place into proper container for disposal. Use non-sparking scoops for flammable materials. Clean walking surfaces thoroughly to reduce slipping hazard.

7. HANDLING AND STORAGE

Handling
Containers of this material may be hazardous when emptied since containers retain product residues (vapor, liquid, and/or solid). All hazard precautions must be observed. Do not flame cut, braze or use welding torch. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

Storage
Do not store above 120 F. Do not store in direct sunlight. Keep away from heat sources, open flame, pilot lights, sparks, and other sources of ignition.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering Controls: Provide sufficient mechanical ventilation (general and/or local exhaust) to maintain exposure below TLV(s).
Respiratory Protection: If work place exposure limits of product or any component are exceeded, use a NIOSH/MSHA approved respirator. Consult your safety equipment supplier for recommendations.
Skin Protection: Wear impervious gloves if method of use involves skin contact with product. Consult your safety supply vendor for glove recommendations.
Eye Protection: Wear safety glasses at minimum; more extensive protection may be necessary depending on how the product is to be used.
Other Protective Equipment: Wear impervious clothing if bodily exposure is anticipated. Consult your safety supply vendor for recommendations.
Hygienic Practices: Wash hands before eating or smoking. Smoke in designated areas only. Remove and launder clothing if contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range:	-44 – 472 F	**Vapor Density:**	Heavier than air
Odor:	Mint when wet	**Odor Threshold:**	N.D.
Appearance:	White Liquid	**Evaporation Rate:**	Faster than butyl acetate
Solubility In Water:	Negligible	**Specific Gravity:**	0.7138
Freeze Point:	N.D.	**pH:**	N.A.
Vapor Pressure:	N.D.	**Viscosity**	N.D.
Physical State:	Liquid	**VOC Product:**	378 g/l
Coefficient of Water / Oil Distribution:	N.D.	**VOC Less Exempt Solvents (Acetone)**	491 g/l
% Volatiles / Wt.	79.9	**% Volatiles / Vol.**	85.6

10. STABILITY AND REACTIVITY

Conditions to Avoid: Heat, sparks, welding arcs, open flame, pilot lights, static electricity or other source of ignition.
Incompatibilities: Oxidizing agents, acids, reducing agents, strong oxidizers
Hazardous Decomposition Products: carbon monoxide and carbon dioxide, various hydrocarbons, acetic acid, sulfur dioxide, nitrogen oxide, nitrogen peroxide, sulfur monoxide
Hazardous Polymerization: will not occur under normal conditions
Stability: This product is stable under normal storage conditions

11. TOXICOLOGICAL INFORMATION

Effects of Overexposure - Acute
Eye Contact – Can cause severe irritation, redness, tearing, blurred vision
Skin Contact – Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis
Inhalation – Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. Overexposure may cause damage to the nervous system.
Ingestion – No information available
Effects of Overexposure – Chronic
Overexposure to this material (or its components) has been found to cause the following effects in laboratory animals: damage to the kidney, eye, liver, lung, nasal cavity, nervous system, and testes
Overexposure to this material (or its components) has been found to cause the following effects in humans: visual impairment and central nervous system effects

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method
Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Information

DOT Proper Shipping Name: Aerosols
DOT Hazard Class: 2.1
Hazard Subclass: None
DOT UN/NA Number: UN1950
Packing Group: None
RESP. Guide Page: 126
Additional Information
For domestic ground and air shipment this product may be shipped as a Consumer Commodity ORM-D. Outer cartons must have the ORM-D or ORM-D AIR designation.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard 29 CFR 1910.1200

CERCLA – SARA Hazard Category:
This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
Immediate Health Hazard, Chronic Health Hazard, Fire Hazard, Pressurized Gas Hazard

SARA Section 313:

This product contains the following substances 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:

Chemical Name	CAS Number	Percent by Weight
Hexane	110-54-3	<25

Hexane is a mixture of n-hexane and other compounds all falling under the general chemical name light hydrotreated distillate CAS-68410-97-9. The n-hexane content in this product is 60 – 70%. On June 30, 1993, the OSHA Z-1-A Table was revoked and OSHA reverted back to their prior exposure limits. The values on this MSDS reflect the roll back to the prior values. Some states may continue to enforce the 1993 limits. On June 16, 1995, EPA announced in a final rule that acetone would no longer be considered a VOC for air attainment standards. It is now an exempt compound. The June 16 rule also removed acetone from the list of SARA 313 reportable chemicals.

15. REGULATORY INFORMATION (Continued)

Toxic Substances Control Act:
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States.

Chemical Name	CAS Number
No Information Available	

International Regulations
Canadian WHMIS Class: No Information Available

Products bearing the Caution Label are certified to be properly labeled in a program of toxicological evaluat by a nationally recognized toxicologist. The products are certified by the toxicologist to be labeled in accordance with the chronic hazard labeling standard ASTM D-4236.

16. OTHER INFORMATION

Table of Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
AICS	Aboriginal Independent Community Schools
ANSI	American National Standards Institute
ASTM	American Society for Testing Materials
°C	Degrees Centigrade
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CPR	Controlled Products Regulations
DOT	Department of Transportation
DSL	Domestic Substances List
ECL	Education Counseling Service
EINECS	European Inventory of Existing Commercial Chemical Substances
ENCS	Existing and New Chemical Substances
EPA	Environmental Protection Agency
°F	Degrees Fahrenheit
FDA	Food & Drug Administration
Hg	Mercury
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMO	International Maritime Organization
LD	Lethal Dose
mg / kg	Milligram per kilogram

16. OTHER INFORMATION (Continued)

MITI	Ministry of International Trade and Industry
mm	Millimeter
MSDS	Material Safety Data Sheet
MSHA	Mine Safety and Health Administration
N.A.	Not Applicable
N.D.	Not Determined
N.E.	Not Established
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
SARA	Superfund Amendment and Reauthorization Act
STEL	Short-Term Exposure Limit
TDG	Transport Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time - Weighted Average
U.N.	United Nations
WHMIS	Workplace Hazardous Materials Information System
>	Greater Than
<	Less Than

Creation Date: 04/12/07
Revision Date: 07/20/07
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Disclaimer

The information given and the recommendations made herein apply to our product(s) alone and not combined with any other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.