



1. COMPANY AND PRODUCT IDENTIFICATION

iLoveToCreate
A Duncan Enterprises Company
5673 East Shields Avenue
Fresno, CA 93727
559-291-4444
559-291-9444 (Fax)
www.ilovetocreate.com

EMERGENCY TELEPHONE NUMBERS
Health Emergencies:
559-291-4444 7:00 am – 3:30 pm Pacific Std. 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: Liquid Fusion
Product Use/Description: Adhesive
Not intended for: No data.

2. HAZARDS IDENTIFICATION

Classification:	Flammable Aerosol
Health & Physical Hazard Statement:	Flam. Aero. – Cat. 1 Skin Corr./Irrit. – Cat. 2 Serious eye dam/irrit. – Cat. 2A Repro. Tox. – Cat. 2 Spec. Target Organ Tox. Single Exp. – Cat. 3 (Nar. Eff.) Spec. Target Organ Tox. Repeat – Cat. 2 Asp. Haz. – Cat. 1 Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure.
Other Hazards not classified:	No data.
Signal Word:	Danger
Precautionary Statement:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames, hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection and face protection.
Pictogram(s) by GHS:	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Detailed formulation is submitted by the client and it is proprietary information.
Products are made by physical manipulation and chemical reaction from the ingredients. These ingredient chemicals may not exist as its original formula in final products. None of these ingredients are hazardous substances.

Reportable ingredients (if applicable):

Identity/Synonym	CAS Number:	Percentage/Range:
Dimethyl Ether	115-10-6	20 – 40
Acetone	67-64-1	10 – 20
n-Hexane	110-54-3	10 – 20
Propane	74-98-6	10 – 20
2-Methylpentane	107-83-5	2.5 – 10
3-Methylpentane	96-14-0	1 – 2.5
Other components below reportable levels	-	20 – 40

4. FIRST AID MEASURES

General Advice:	Take off contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
On Inhalation:	Seek fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
On Skin Contact:	Take off immediately all contaminated clothing. Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Wash clothing separately before reuse.
On Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention/advice if irritation develops or persists.
On Ingestion:	Call a physician or poison center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Acute/Delayed Symptoms:	Cause serious eye irritation. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Medical Advice:	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. FIRE FIGHTING MEASURES

Extinguishing Media	
Suitable extinguishing media:	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Protection of Firefighters	
Specific hazards arising from the chemical:	Contents under pressure. Pressurized container may expose when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Protective equipment for firefighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces SCBA.
Will hazardous combustion occur?:	Extremely flammable aerosol.

6. ACCIDENTAL RELEASE MEASURES

Emergency Containment procedures:	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheets to prevent spreading. Absorb in vermiculite, dry sand or earth and place in containers. Prevent entry into waterways, sewers, basements or confined areas. Following product recovery, flush area with water. Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of this SDS.
Environmental Precautions, if any?:	Environmental manager must be informed of all major releases. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
Personal Protective Equipment:	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For more on personal protective equipment, see section 8 of this SDS.

7. HANDLING AND STORAGE

Safe Storage:	Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible material (See section 10 of this SDS).
Safe Handling:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defecting. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose container to heat, flame, sparks or other sources of ignition. Avoid contact with skin, eyes, and clothing. All equipment when handling this product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not reuse empty containers. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only well-ventilated areas. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good hygiene practices. Level 3 Aerosol.
Known Incompatibilities:	Heat, sources of ignition.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL
Dimethyl Ether	Ceiling: 0.3 ppm	-
Acetone	TWA: 500 ppm; STEL: 750 ppm;	2400 mg/m ³ 100 ppm
n-Hexane	TWA: 50 ppm	1800 mg/m ³ 500 ppm
Propane	-	1800 mg/m ³ 1000 ppm
2-Methylpentane	STEL: 1000 ppm; TWA: 500 ppm	-

Appropriate Engineering Controls: Explosion-proof general and local exhaust ventilations. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual Protection measures, such as PPE (Personal Protective Equipment):

Personal Protection Equipment:	
Respiratory Protection:	Chemical respirator with organic vapor cartridge and full face piece.
Eye Protection:	Chemical respirator with organic vapor cartridge and full face piece.
Hand Protection:	Wear appropriate chemical resistant gloves and clothing. Use of an impervious apron is recommended.
Skin Protection:	Wear appropriate chemical resistant gloves and clothing. Use of an impervious apron is recommended.
Thermal Protection:	Wear appropriate thermal protective clothing, when necessary.
General Safety and Hygiene Measures:	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:	Liquid
Color:	N/A
Odor:	N/A
Odor Threshold:	N/A
pH:	N/A
Boiling Point/Range:	152.87°F (67.15°C) estimated.
Melting Point/Range:	N/A
Flash Point:	-156.0°F (104.4°C) estimated.
Evaporation Rate:	N/A
Vapor Density:	N/A
Solubility(ies):	N/A
Vapor Pressure:	47.1 psig@70°F estimated.
Relative Density:	0.798 g/cm ³ estimated.
Viscosity:	N/A
Partition Coefficient (n-octanol/water), if applicable:	N/A
Explosive Properties:	Extremely flammable aerosol.

Flammability: (Solid, gas)	Flammable IB estimated
Flammability Limit in Air: Upper/Lower	Lower: 2.2% estimated. Upper: 8.4% estimated.
Autoignition temperature:	577.09°F (302.83°C) estimated.
Decomposition temperature:	N/A

10. STABILITY AND REACTIVITY

Chemical Stability:	Material is stable under normal conditions.
Conditions to Avoid:	Avoid heat, sparks, open flames and other sources of ignition. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	No hazardous decomposition products are known.
Possibility of Hazardous Reactions/Polymerization:	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Eye Contact – Serious Eye Damage or Irritation	Causes serious eye irritation.
Skin Contact – Skin Corrosion, Sensitization or Irritation:	Causes skin irritation.
Ingestion – Carcinogenicity/Aspiration Hazard:	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. However, ingestion is not likely to be a primary route of occupational exposure. Small quantities reaching the lungs through swallowing or subsequent vomiting may result in lung edema or pneumonia.
Inhalation – Respiratory Sensitization/Toxicity:	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Information on toxicological effects:	May be fatal if swallowed and enters airways. Narcotic effects. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.
Germ Cell Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Specific target organ toxicity (single exposure):	Narcotic effects. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure):	May cause damage to organs through prolonged or repeated exposure.
Chemicals listed on NTP, IARC or OSHA as a Carcinogen?:	Not listed.

Chemical Name:	Oral LD50	Dermal LD50	Inhalation LC50	%
Acetone	5800 mg/kg 2.2 ml/kg Rat	>7426 mg/kg, 24 hrs >9.4 ml/kg, 24 hrs Guinea Pig & Rabbit	55700 ppm, 3 hrs 132 mg/l, 3 hrs 50.1 mg/l Rat	20-40
Dimethyl Ether	460 mg/kg Rat	-	2 ppm, 6 hrs Rat	10-20
n-Hexane	24 ml/kg Rat	>2000 mg/kg, 4 hrs 5 ml/kg, 4 hrs	>5000 ppm, 24 hrs >31.86 mg/l	10-20

		Rabbit	73860 ppm, 4 hrs	
Propane	-	-	2.101 – 2981 mg/l, 96 hrs Fathead Minnow	10-20

*Estimates for product may be based on additional component data not shown.

12. ECOLOGICAL INFORMATION (NON-MANDATORY)

Ecotoxicity:	Toxic to aquatic life with long lasting effects.
Persistence and degradability:	No data is available on the degradability of this product.
Bioaccumulative potential:	No data available.
Mobility in soil:	No data available.
Other adverse effects:	No other adverse environmental effects (e.g. ozone depleting, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Disposal instructions:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Dispose of contents/container in accordance with local, regional, national, international regulations.
Local disposal regulations:	Dispose of in accordance with all applicable regulations.
EPA waste code(s):	No data.
Contaminated packaging:	Empty container should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. TRANSPORTATION INFORMATION (NON-MANDATORY)

	DOT	IMDG	IATA
UN/ID number:	UN1950	UN1950	UN1950
Proper shipping name:	Aerosols, flammable.	Aerosols, flammable.	Aerosols, flammable.
Transport hazard class:	2.1	2.1	2.1
Packing group (if applicable):	N/A	N/A	N/A
Environmental Provisions:	N/A	N/A	N/A
Special Precautions in transport:	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.		
Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code	N/A		
Emergency Response Guide Number: N/A	EmS-No:	N/A	

Pictograms		
US:	IATA; IMDG:	Marine Pollutant:
		None

15. REGULATORY INFORMATION (NON-MANDATORY)

US Federal Regulations:					
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):		This product is manufactured in compliance with all provisions of the Toxic Substance Control Act, 15 U.S. C.2601 et. Seq.			
CERCLA (Superfund) reportable quantity (lbs.) (40 CFR 302.4)		Acetone (CAS 67-64-1): Listed n-Hexane (CAS 110-54-3): Listed			
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):		Not listed.			
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):		Not listed.			
Chemical Name:	CAS Number:	Reportable Quantity:	Threshold planning quantity:	Threshold planning quantity, lower value:	Threshold planning quantity, upper value:
None	X	X	X	X	X
Superfund Amendments and Reauthorization Act of 1986 (SARA)					
SARA/Title III:		This product does not contain any substances at or above the reported threshold under Section 313, based on available data.			
SARA 304 Emergency release notification:		Not regulated.			
SARA 311/312 (40 CFR 370) Hazardous Chemical:		None.			
SARA 313 (TRI reporting):		<u>Chemical Name:</u> n-Hexane	<u>CAS Number:</u> 110-54-3	<u>% by wt.</u> 10 – 20	
Drug Enforcement Administration (DEA) (21 CFR 1308.11-15):		Acetone: (CAS 64-64-1); Chemical Code #: 6532; Exempt Chemical Mixtures: 35% WV			
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (Haps) List:		n-hexane (CAS 110-54-3)			
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):		Dimethyl Ether (CAS 115-10-6) Propane (CAS 74-98-6)			
Safe Drinking Water Act (SDWA):		Not regulated.			
Canadian Domestic Substances List (DSL):		Not on inventory list.			
FDA:		No data.			
Conforms to Non-Toxic ASTM-4236:		Products are certified in a program of toxicological evaluation by a nationally recognized toxicologist to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. These products are certified to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236. In addition, there is no physical hazard as defined within 29 CFR Part 1910.1200(c).			
California Proposition 65 Warning:		This product contains the following chemicals that are known to the State of California to cause cancer, birth defects, or other reproductive harm: None.			
EPA Clean Air / Water Act:		No data.			
EPA Hazardous Wastes:		No data.			
HMIS III Rating:		No data.			
Unless a concentration is specified in Section 2 of the SDS, the above chemical(s) are present in trace amounts.					

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

16. OTHER INFORMATION

These recommendations and information contained in this MSDS have been compiled from sources believed to represent the most current information available when the MSDS was prepared. However, the manufacturer / distributor of this product does not provide any warranty, guaranty of representation as to the correctness or sufficient of this information. If this material is used in large amounts and/or an unusual manner, the user is obliged to determine what safety measures are appropriate, including the applicable and relevant workplace and environmental regulations pertaining to handling, use and disposal.

Table of Abbreviations			
ACGIH:	American Conference of Governmental Industrial Hygienists	LD:	Lethal Dose
ANSI:	American National Standards Institute	MARPOL:	Marine Pollution
ASTM:	American Society for Testing Materials	mg / kg:	Milligram per Kilogram
°C:	Degrees Centigrade	mm:	Millimeter
CAA:	Clean Air Act	MSHA:	Mine Safety and Health Administration
CAS:	Chemical Abstract Service	N/A:	Not Applicable
CERCLA:	Comprehensive Environmental Response, Compensation & Liability Act	NFPA:	National Fire Protections Association
CFR:	Code of Federal Regulations	NIOSH:	National Institute for Occupational Safety and Health
CPR:	Controlled Products Regulations	NTP:	National Toxicology Program
DEA:	Drug Enforcement Act	OEL:	Over Exposure Limit
DOT:	Department of Transportation	OSHA:	Occupational Safety and Health Administration
DSL:	Canadian Domestic Substances List	PEL:	Permissible Exposure Limits
EmS:	Emergency Medical Goods Services	ppm:	Parts Per Million
EPA:	Environmental Protection Agency	SARA:	Superfund Amendment and Reauthorization Act
°F:	Degrees Fahrenheit	STEL:	Short-Term Exposure Limit
FDA:	Food & Drug Administration	SDS:	Safety Data Sheet
g/l:	Grams per Liter	SDWA:	Safe Drinking Water Act
HAPs:	Hazardous Air Pollutants	TLV:	Threshold Limit Value
Hg:	Mercury	TRI:	Toxics Release Inventory
HMIS:	Hazardous Materials Identification System	TSCA:	Toxic Substances Control Act
HNOC:	Hazard(s) Not otherwise classified	TWA:	Time – Weighted Average
IARC:	International Agency for Research on Cancer	U.N.	United Nations
IATA:	International Air Transport Association	WHMIS:	Workplace Hazardous Materials Information System
ID:	Identification / Identity	>	Greater Than
IDLH:	Immediate Danger to Life or Health	<	Less Than
IMDG:	International Maritime Dangerous Goods	73/78:	1973 & 1978
LC:	Lethal Concentration		

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3/23/2015	1	
	2	1/23/2016-SP
	3	8/1/16-JL

END SAFETY DATA SHEET