Safety Data Sheet

APPLICATION FAST SET

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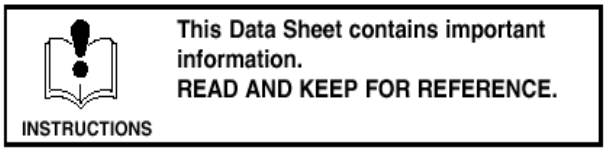

1.0 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Clear Shot Liquid

Chemical Name: Solvent Blend

Manufacturer / Supplier:

Graco Inc.
P.O. Box 1441
88 11th Ave. NE
Minneapolis, MN 55440–1441

For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-741-5970

Part Number(s): 256385, 256386, 256387, 17X756, 17X757

Use: Fusion CS Gun Cleaner and Lubricant

2. Hazards Identification

Hazard ratings This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.
HMIS: Health-1, Flammability-1 Reactivity – 0
NFPA: Health-1, Flammability-1 Reactivity – 0
RATING: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
ACUTE TOXICITY : ORAL - Category 5
ACUTE TOXICITY: SKIN - Category 5
AQUATIC HAZARD (ACUTE) - Category 3

Signal word; Warning

Hazard statement(s)
May be harmful if swallowed. May be harmful in contact with skin.
May cause eye irritation. May cause skin irritation.
May cause respiratory irritation. Harmful to aquatic life.

Precautionary statement(s)
Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention: Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
Response :
IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.
IF ON SKIN: Call a POISON CENTER or physician if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Hazards not otherwise classified: Repeated or prolonged inhalation of vapors may lead to temporary blurred or double vision.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Store in a well-ventilated place. Keep cool. Dispose of contents/ container to an approved waste disposal plant.

3. Composition / Information on Ingredients

Ingredients	CAS #	Percent	Exposure Limits
Dimethyl Glutyrate	1119-40-0	20-30 %	OSHA (TWA)- N/E ACGIH (TWA)- N/E
Dimethyl Adipate	627-93-0	10-20%	OSHA (TWA)- N/E ACGIH (TWA)- N/E
Dimethyl Adipate	627-93-0	5-10%	OSHA (TWA)- N/E ACGIH (TWA)- N/E
Dimethyl Sulfoxide	67-68-5	60-70%	OSHA (TWA)- N/E ACGIH (TWA)- N/E WEEL (TWA)- 250 ppm

4. First Aid Measures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and continue to monitor. Get medical attention. See Section 15 for additional first aid information.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Thoroughly wash (or discard) clothing and shoes before reuse. Injection injuries may not appear serious at first but within a few hours, without proper treatment, the area will become swollen, discolored and extremely painful. Following injection, prompt debridement of the wound is necessary to minimize necrosis and tissue loss.

EYES: Immediately flush eyes with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes examined and tested by medical personnel.

INGESTION: If swallowed, immediately contact a physician or Poison Control Center. Never give anything by mouth to an intoxicated, unconscious or convulsing person. Get immediate medical attention.

5. Fire Fighting Measures

EXTINGUISHING MEDIA: The following media may be used to extinguish a fire involving this material: Water spray; Carbon dioxide; Dry chemical

FIRE FIGHTING INSTRUCTIONS: Use water spray. Use water spray to cool fire exposed tanks and containers. The use of fresh air equipment such as Self Contained Breathing Apparatus (SCBA) or Supplied Air Respirators should be worn for firefighting if exposure or potential exposure to products of combustion is expected. Wear structural firefighting gear.

FLAMMABLE PROPERTIES

	Typical	Minimum	Maximum	Text Result	Units	Method
Flash Point	>190 F			PMCC	F	N/A

6. Accidental Release Measures

Spill or Leak Instructions
Prevent ignition, stop leak and ventilate the area. Keep personnel upwind from leak. Use appropriate personal protective equipment as stated in Section 8 of this MSDS. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Do not flush to sewers. Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required. In Canada, advise the Ministry of the Environment, if required. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

7. Handling and Storage

Handling: FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN

HANDLING
Use only in a well-ventilated area. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

STORAGE: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure Controls / Personal Protection

Consult With a Health and Safety Professional for Specific Selections

Mixed esters	
MFG ; Workplace Exposure Guideline(United States).	TWA: 10 mg/m³ 8 hours.
Dimethyl sulfoxide	
USA. Workplace Environmental Exposure Levels (WEEL)	TWA 250. ppm

ENGINEERING CONTROLS
Use with adequate ventilation. Ventilation is normally required when handling or using this product to keep exposure to airborne contaminants below the exposure limit.

PERSONAL PROTECTION
EYE PROTECTION
Splash proof chemical goggles or full face shield recommended to protect against splash of product.
GLOVES or HAND PROTECTION
Protective gloves are recommended to protect against contact with product. The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection.
Nitrile; Viton;

RESPIRATORY PROTECTION
Concentration in air determines the level of respiratory protection needed. Respiratory protection is usually needed. Half-mask air purifying respirator with organic vapor cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with organic vapor cartridges is acceptable for exposures to fifty (50) times the exposure limit. Exposure should not exceed the cartridge limit of 1000 ppm. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA.

OTHER: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. For non-fire emergencies, respiratory protection may be necessary and wear appropriate protective clothing to avoid contact with material.

Discretion Advised: Chemical Solvents Inc. takes no responsibility for determining what measures are required for personal protection in any specific application. The general information should be used with discretion.

9. Physical and Chemical Properties

Boiling Point: >300 F
Vapor Density: > 1 (Air=1)
Odor/Appearance: clear, colorless to straw liquid
Specific Gravity: 1.0
Water Solubility: Partial
Evaporation Rate: <1 (NBA=1)

10. Stability and Reactivity

Stability: Stable
Conditions to Avoid: Heat, spark, and open flame
Incompatibility: Strong Oxidizing Agents
Hazardous Decomposition: Combustion will produce Carbon Monoxide, Carbon Dioxide and nitrogen-oxygen compounds.
Hazardous Polymerization: Will not occur

11. Toxicological Information

Note: Some studies have linked the use of "Solvents" to Changes in the liver, kidneys, nervous system, and Non-Hodgkins Lymphoma.

Dimethyl Adipate, Dimethyl Succinate, Dimethyl Glutarate

Ascend Workplace Exposure: TWA: 10 mg/m³ 8 hours
Acute animal toxicity data:
Oral: LD50, rat, > 500 mg/kg , Slightly toxic following oral administration. No Mortality observed at listed concentration.
Dermal: LD50 , rabbit, > 5,000 mg/kg , Practically nontoxic after skin application in animal studies.
Inhalation: LC50, rat, > 10.7 mg/l , 1 h,
Eye irritation: rabbit, Moderately irritating,
Skin irritation: rabbit, Practically non irritating to skin (rabbit)., 4 h
Skin sensitization: guinea pig, This material did not produce skin sensitization in laboratory animals.
Repeat dose toxicity: rat, gavage, 28 days, No adverse treatment related effects.
Repeat dose toxicity: rat, inhalation, 90 day, Produced effects on body weight, serum enzymes and/or organ weights in repeat dose studies. Repeated inhalation exposure produces nasal tissue damage. Minor changes in male fertility parameters, i.e. hormone measurements, sperm number or reproductive organ weights, observed in the absence of a change in reproductive performance. Rodents are more susceptible to reported effect than humans.
Target organs affected -nose
Developmental toxicity: rat, inhalation, , No effects on offspring observed in laboratory animals in the presence of maternal toxicity.

Reproductive toxicity: rat, inhalation, 1 generation, Signs of generalized toxicity (reduced body weight and/or reduced weight gain) were observed in parental animals and offspring with no effect on fertility or reproduction.
Mutagenicity: No genetic effects were observed in standard tests using bacterial cells and whole animals.

No genetic effects were observed in standard tests using bacterial cells and whole animals.
Genetic effects were observed in standard tests with animal cells.
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Components
Data from Cytec studies and/or the available scientific literature on the components of this material which have been identified as hazardous chemicals under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Hazardous Products Act are discussed below.

dimethyl glutarate Practically nontoxic following oral administration.

Practically nontoxic after skin application in animal studies.
Moderately irritating to eyes (rabbit).
Practically non irritating to skin (rabbit).

dimethyl succinate Slightly toxic following oral administration.
Practically nontoxic after skin application in animal studies.
Moderately irritating to eyes (rabbit).
Practically non irritating to skin (rabbit).

dimethyl adipate Practically nontoxic following oral administration.
Practically nontoxic after skin application in animal studies.
Practically non irritating to skin (rabbit).
Moderately irritating to eyes (rabbit).

Dimethyl Sulfoxide:

Acute Toxicity Data:
Oral LD-50 (male rat): 14,500-28,300 mg/kg
Inhalation (rat): No mortality rate @ 2,900 mg/m3 (900 ppm)/ 24 hrs.
Dermal LD-50 (rat): 40,000 mg/kg
Skin irritation (human): Mild
Repeated skin application (human): Slight irritation
Skin sensitization (human): None by EC protocols
Eye irritation (human): None by EC protocols
Subchronic Toxicity Data:**
Oral study (13 weeks, rat): LOEL = 8800 mg/kg/day (minor target organ effects: liver)
(reduced body weight gain): NOEL = 1100 mg/kg/day
Inhalation study (13 weeks, rat): NOAEL = 0.964 mg/L (302 ppm)
**** Note - definitions for data:**
LOEL = lowest observed effect level **NOAEL =** no observed adverse effect level **NOEL =** no observed effect level.
Developmental Toxicity Data:
DMSO is not considered to be directly embryotoxic and has been shown to be a successful cryoprotectant for mammalian semen and embryos.
A mouse teratology NOEL of 12 g/kg/day has been established based on research with a 50% DMSO solution administered orally. Teratology data suggests that:
1. DMSO is not a teratogen to mammals when administered via oral and dermal routes at dose level that do not produce overt maternal toxicity.
2. DMSO is not a teratogen at low dose levels regardless of the route of administration.
3. The teratogenic potential of DMSO is dependent on route of administration, the dose level and the gestational time of exposure, but in all cases is extremely low or non-existent.
Mutagenicity/Genotoxicity Data:
Salmonella typhimurium assay (Ames test): negative (+/- activation). DMSO is used as a neutral solvent in the Ames mutagen test.

12. Ecological Information

No Data Available.

13. Disposal Considerations

Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste.

14. Transport Information

Not Regulated by D.O.T.

15. Regulatory Information

Environmental Regulations
SARA 311:

Acute health:	Yes	**Chronic health:**	No
Fire:	Yes	**Sudden release of pressure:**	No
Reactive:	No		

SARA 302/304 Composition/information on ingredients: No products were found.
SARA 304 RQ : Not applicable.
United States inventory (TSCA 8b): All components are listed or exempted.

16. Other Information

Prepared By	Graco, Inc.

This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we have received from sources outside our company. We believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this Data Sheet may not be adequate for all individuals and/or situations. It is the users' obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.

NOTES: NA = Not Applicable; NE = Not Established; UN = Unavailable

All written and visual data contained in this document reflects the latest product information available at the time of publication.
Graco reserves the right to make changes at any time without notice.
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