Mötsenböcker's Lift Off, Inc.
P.O. Box 90947
San Diego, CA 92169
Phone: 858-581-0222

Safety Data Sheet

1. Product And Company Identification

Product Name: **Mötsenböcker's Lift Off #3 Pen, Ink & Marker Remover**
Product Code: MLO3SDS
Product Reference Number: NJTSRN #409-01, 409-02, 409-03, 409-14, 410-01, 410-55, 415-01, 421-01

Responsible Party: Mötsenböcker's Lift Off, Inc.
P.O. Box 90947
San Diego, CA 92169

Information Phone Number: 1-858-581-0222 1-800-346-1633 (Toll Free)
Fax: 1-858-483-6965
Website: www.liftoffinc.com

24 Hour Emergency Phone Number:
INFOTRAC@ 800-535-5053

SDS Date of Preparation: 05/08/2015
Product Use and Uses Advised Against: Pen, Ink and Graffiti Remover

2. Hazards Identification

Note: This product is a consumer product and is labeled in accordance with the Consumer Product Safety Commission regulations and not OSHA regulations. The requirements for the labeling of consumer products take precedence over OSHA labeling so the actual product label will not contain the OSHA label elements shown below on this SDS.
Note: This product has been tested for sustained combustibility by Stresau Laboratory, Inc. Due to the nature of the product, it does not Sustain combustibility. It will not start a fire from sparks. Due its water-based composition, this product is capable of stopping a fire.

e-CFR data is current as of June 19, 2015

Title 16 → Chapter II → Subchapter C → Part 1500

(ii) The term *flammable* shall apply to any substance having a flashpoint above 20 °F (−6.7 °C) and below 100 °F (37.8 °C), as determined by the method described at §1500.43a, except that:

(A) Any mixture having one component or more with a flashpoint at or above 100 °F (37.8 °C) which

comprises at least 99 percent of the total volume of the mixture is not considered to be a flammable substance; and

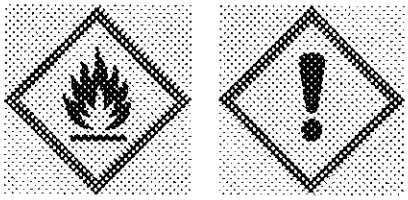
(B) Any mixture containing 24 percent or less of water miscible alcohols, by volume, in aqueous solution is not considered to be flammable if the mixture does not present a significant flammability hazard when used by consumers.

GHS Classification:

Physical:	Health:
Flammable Liquid Category 3	Skin Irritation Category 1 Eye Irritation Category 1

Refer to Section 5 for additional information

GHS Label Elements:



WARNING!

Statements of Hazard
Non-flammable liquid and vapor.

Prevention
Keep away from heat, sparks, open flames, and hot surfaces.
Keep container tightly closed.
Wash exposed skin thoroughly after handling.
Wear eye protection.

Storage
Store in a well-ventilated place. Keep cool.

Response
If skin irritation occurs: Get medical attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical attention.

Disposal
Dispose of contents and container in accordance with local and national regulations.

3. Composition/Information on Ingredients

Component	CAS No.	Amount
Glycol Ether DB	112-34-5	10-20%
Acetone	67-64-1	5-10%

*There are other components in the product composition. The exact concentrations are a trade secret, proprietary and patent pending.

4. First Aid Measures

Inhalation: If inhaled, remove to fresh air. Prolonged exposure to product may cause dizziness.

Skin Contact: Contact with product can dry and 'defat' skin, causing irritation or dermatitis. Wash skin thoroughly with soap and water. Get medical attention if irritation develops or persists. Launder clothing before re-use.

Eye Contact: May cause eye irritation. If contact occurs, immediately flush eyes with large quantities of water for 15 minutes, holding the eyelids apart. Get medical attention if irritation persists.

Ingestion: If swallowed, do not induce vomiting, may cause stomach distress. Rinse mouth with water. Get medical assistance by calling a doctor or poison center. Never give anything by mouth to a person who is unconscious or drowsy.

Most Important Symptoms: Most Important Symptoms: Causes eye irritation. May cause minor skin irritation. Inhalation of mists may cause respiratory irritation. Inhalation of vapors may cause dizziness and headache.

Indication of Immediate Medical Attention/Special Treatment: Immediate medical attention should not be required with normal use.

5. Firefighting Measures

Suitable (and Unsuitable) Extinguishing Media: Use media suitable for surrounding fire. Cool fire exposed containers with water.

Specific Hazards Arising from the Chemical: While this product is classified as a flammable liquid under OSHA regulations, it does not sustain combustion when tested in accordance with 49CFR, Part 173, Appendix H. This product has been tested for sustained combustibility by Stresau Laboratory, Inc. Due to the nature of the product, it does not sustain combustibility. It will not start a fire from sparks. Due its water-based composition, this product is capable of stopping a fire.

e-CFR data is current as of June 19, 2015

Title 16 → Chapter II → Subchapter C → Part 1500

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(A) Any mixture having one component or more with a flashpoint at or above 100 °F (37.8 °C) which comprises at least 99 percent of the total volume of the mixture is not considered to be a flammable substance; and

(B) Any mixture containing 24 percent or less of water miscible alcohols, by volume, in aqueous solution is not considered to be flammable if the mixture does not present a significant flammability hazard when used by consumers.

Special Protective Equipment and Precautions for Fire-fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Eliminate all ignition sources and ventilate the area. Wear appropriate protective clothing and equipment as described in Section 8.

Environmental Procedures: Prevent entry in storm sewers and waterways. Report spill as required by local and national regulations.

Methods for Containment and Clean-Up: Stop spill at the source if it is safe to do so. Absorb with an inert material. Collect into a suitable container for disposal. Rinse area with water.

7. Handling and Storage

Precautions for Safe Handling: Avoid eye and skin contact. Avoid breathing mists or vapors. Use only with adequate ventilation. Keep containers closed when not in use.

Empty containers retain product residue and may be hazardous.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, well-ventilated area away from acids and other incompatible materials. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Exposure Guidelines:

CHEMICAL	EXPOSURE LIMIT
Glycol Ether DB	10 ppm TWA ACGIH TLV (Inhalable fraction and vapor)
Acetone (The EPA has classified acetone as a non-toxic chemical and a non-VOC component.)	500 ppm TWA, 750 ppm STEL ACGIH TLV 1000 ppm TWA OSHA PEL

Engineering Controls: General ventilation should be adequate for all normal use.

Personal Protective Equipment

Respiratory Protection: None required under normal use conditions. In operations where exposure limits are exceeded, a NIOSH approved respirator with an organic vapor cartridge and a dust/mist prefilter or supplied air respirator is recommended. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Gloves: None required under normal use conditions.

Eye Protection: Safety goggles are recommended if eye contact is possible.

Other Protective Equipment/Clothing: None required under normal use conditions.

9. Physical and Chemical Properties

Appearance and Odor: Clear liquid with mild odor.

Physical State: Liquid	**Odor Threshold:** Not determined
pH: 9-10	**Specific Gravity:** 1.0
Initial Boiling Point/Range: 194°F (90°C)	**Vapor Pressure:** Not determined
Melting/Freezing Point: Not determined	**Vapor Density:** Greater than air.
Solubility In Water: Complete	**Percent Volatile:** >70%
Viscosity: Not determined	**Evaporation Rate:** Not determined
Coefficient Of Water/Oil Distribution: Not determined	**VOC Content:** 18.18% (182 g/l)
Flash Point: 76°F (23.8°C)	**Autoignition Temp:** Not determined
Decomposition Temperature: Not determined	**Flammability Limits:** LEL: Not determined UEL: Not determined
Flammability (solid, gas): Not applicable	

*See Section 5

10. Stability and Reactivity

Reactivity: Not normally reactive
Chemical Stability: Stable.
Possibility of Hazardous Reactions: Will react with acids and strong oxidizing agents.
Conditions to Avoid: Not currently known.
Incompatible Materials: Acids and strong oxidizing agents.
Hazardous Decomposition Products: Thermal decomposition will generate oxides of carbon.

11. Toxicological Information

POTENTIAL HEALTH EFFECTS:

Acute Hazards:

Inhalation: Mist and vapors may cause mild irritation mucous membranes and upper respiratory tract.

Skin Contact: May cause minor irritation.

Eye Contact: Causes eye irritation.

Ingestion: Swallowing may cause gastrointestinal upset and nausea.

Chronic Hazards: None currently known.

Carcinogenicity Listing: None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP or OSHA.

Acute Toxicity Values:

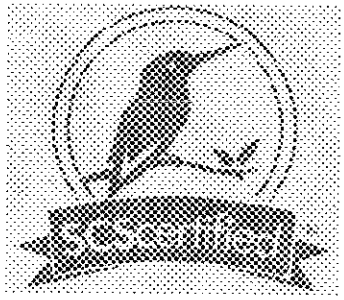
Acetone: LD50: Oral Rat 5,800 mg/kg, LD50: Skin Rabbit >7,426 mg/kg, LC50: Inhalation Rat 76 mg/L/ 4 hr.
Glycol Ether DB: LD50: Oral Rat 4,500 mg/kg; LD50: Skin Rabbit 4,120 mg/kg

12. Ecological Information

Ecotoxicity
Acetone: LC50 Rainbow trout - 5540 mg/L/96 hr. EC50 Daphnia pulex - 8800 mg/L/48 hr.
Glycol Ether DB: LC50 Oncorhynchus mykiss 1,474 mg/L/96 hr., EC50 Daphnia magna: 1,550 mg/L/48 hr., EC50 Pseudokirchnerella subcapitata 911 mg/L/ 72 hr.

Persistence and Degradability:
This product has been tested and certified biodegradable by Scientific Certification Systems.

Bio accumulative Potential: Acetone: BCF = 3, EDTA: 3
This product is not expected to bioaccumulate in aquatic organisms.
Mobility in Soil: No data available
Other Adverse Effects: No data available



13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations. Offer empty containers for recycling.

14. Transport Information

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			
TDG		Not Regulated			
IMDG		Not Regulated			
IATA		Not Regulated			

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known.

15. Regulatory Information

United States:

EPA TSCA INVENTORY: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

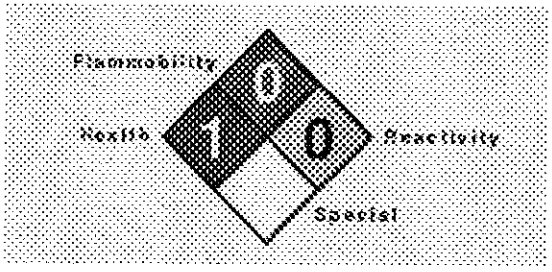
CERCLA Section 103: This product has a RQ of 50,000 lbs. based on the RQ for Acetone of 5,000 lbs present at 10.0% maximum. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

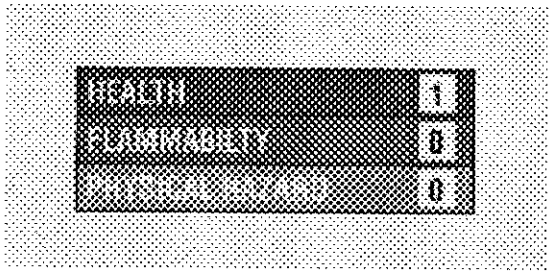
SARA Hazard Category (311/312): Fire Hazard, Acute health.

SARA 313: Not currently known. This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Glycol Ether	111-76-2	3-10%

16. Other Information





NFPA Rating (NFPA 704):	Health: 1	Fire: 0	Instability: 0
HMIS Rating:	Health: 1	Fire: 0	Physical Hazard: 0

REVISION SUMMARY:
May 8, 2015 Update to OSHA HazCom 2012 / GHS SDS format: Changes to all sections.
January 1, 2012 Revision update.
January 1, 2006 Revision update

Prepare by: Industrial Health & Safety Consultants, Inc.

The above information is believed to be correct with respect to the formula used to manufacture the product. As data, standards and regulations change, and the conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

CONSUMER LABELING

What is a consumer product?

OSHA Description:

* Any consumer product or hazardous substance, as those terms are defined in the Consumer Product Safety Act (15 U.S.C. 2051 et seq.) and Federal Hazardous Substances Act (15 U.S.C. 1261 et seq.) respectively.

Consumer Product Safety Commission:

* A product brought into or around a dwelling and related buildings (garages, sheds, etc.). Does not include industrial supplies – labeled as and marketed solely for industrial use.

* Includes products designed primarily for professional use but available to consumers in retail stores for non-professional use.

Who governs consumer product labeling?

OSHA exempts consumer products from labeling under OSHA.

* Any consumer product or hazardous substance as those terms are defined in the Consumer Product Safety Act (15 U.S.C. 205 et seq.) and Federal Hazardous Substances Act (15 U.S.C. 1261 et seq.) respectively, when subject to a consumer product safety standard or labeling requirement of those Acts, or regulations issued under those Acts by the Consumer Product Safety Commission

OSHA fully exempts consumer products from Hazard Communication if used in the workplace in a consumer manner.

* The Consumer Product Safety Commission (CPSC) mandates labeling for all hazardous substances that are consumer products.

* If products are sold retail and available for use around the home, they must be labeled per the CPSC.

* OSHA does require a SDS to inform workers of hazards.

This information was provided by Industrial Health & Safety Consultants, Inc. of Shelton, CT.