SAFETY DATA SHEETS

This SDS packet was issued with item:

077277122

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

077277130

SAFETY DATA SHEET

(Revision: 2/9/2015)

Regulation (EC) No 1907/2006 (REACH

Section 1 Identification of the Substance/Preparation and of the Company/Undertaking.

1.1 Product Identifier

Product Type: Dental Lubricant and Model Separator
Trade Names: Gator ™ Die Lube

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Dental Lubricant and Model Separator
Uses Advised Against: For professional use only.

1.3 Details of the Supplier of the Substance or Mixture

Manufacturer:
Whip Mix Corporation
361 Farmington Avenue
Louisville, Kentucky, USA 40209
Emergency Telephone Number: (502) 634-1451
Fax Number: (502) 634-4512

EU Importer
Whip Mix Europe GmbH
Wißstrasse 26 – 28
D – 44137 Dortmund
Germany
+49 (0) 231 / 567 70 8-0

1.4 Emergency Telephone Number

Transportation Emergencies: *CHEMTREC 1(800) 424-9300 (U.S. and Canada)*
International Calls: 1- 703-527-3887 (Collect calls accepted)
Other Product Information: **www.whipmix.com**

Section 2 Hazard Identification

2.1 Classification of the Substance or Mixture:

CLP/GHS Classification (1272/2008):

Health Hazards	Physical Hazards	Environmental Hazards
Eye Irritation Category 2 (H319) Specific Target Organ Toxicity – Single Exposure Category 3 (H336)	Flammable Liquid Category 2 (H225)	Not Hazardous

EU Classification (67/548/EEC): Highly Flammable (F), Irritant (Xi) R11, R36, R67

2.2 Label Elements

Danger!

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Prevention

P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment
P241 Use explosion-proof electrical, ventilating and lighting equipment.
P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P261 Avoid breathing mist, vapors or spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves and eye protection.

Response
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER or doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical attention.
P370 + P378 In case of fire: Use water fog, alcohol foam, carbon dioxide or dry chemical to extinguish.

Storage and Disposal
P403 + P235 Store in a well-ventilated place. Keep cool. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None

Section 3 Composition/Information on Ingredients.

Substance	***CAS No. / EC Number***	***%***	**EU Classification (67/548/EEC)**	**CLP/GHS Classification (1272/2008)**
Isopropanol (Isopropyl Alcohol)	67-63-0 / 200-661-7	65-95	F Xi R11, R36, R67	Flam Liq 2 H225 Eye Irrit 2 H319 STOT SE 3 H336
Glycerin	56-81-5 / 238-878-4	1-5	Not dangerous	Not hazardous

See Section 16 for full text of GHS and EU Classifications.

Section 4 First-Aid Measures.

4.1 Description of First Aid Measures
Inhalation: Remove exposed person to fresh air. If irritation or other symptoms persist, get medical attention.
Eyes: Flush with large quantities of water for several minutes, holding the eyelids apart. If irritation persists consult a physician.
Skin: Wash skin with soap and water. If irritation develops and persists, get medical attention.
Ingestion: If swallowed, rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Do not induce vomiting. Get medical attention.

4.2 Most Important symptoms and effects, both acute and delayed: Causes eye irritation. Prolonged skin contact may cause irritation and drying of the skin. Inhalation of vapors or mists may cause respiratory irritation and central nervous system effects. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is not required under normal conditions of use.

Section 5 Fire-Fighting Measures.

5.1 Extinguishing Media: Use water fog, alcohol foam, carbon dioxide or dry chemical.
5.2 Special Hazards Arising from the Substance or Mixture: This product is highly flammable and forms explosive mixtures with air. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat.
5.3 Advice for Fire-Fighters: Firefighters should wear full emergency equipment and approved positive pressure self-

contained breathing apparatus. Cool fire exposed containers with water.

Section 6 Accidental Release Measures.

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Remove all sources of ignition. Ventilate area with explosion proof equipment. Wear appropriate protective clothing as described in Section 8.

6.2 Environmental Precautions: Report releases as required by local and national authorities.

6.3 Methods and Material for Containment and Cleaning Up: Contain and collect using inert absorbent materials and place in appropriate containers for disposal. Use non-sparking tools and equipment. If spill has not ignited, use water spray to disperse the vapors and protect personnel attempting to stop leak. Do not flush to sewer!

6.4 Reference to Other Sections: Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

Section 7 Handling and Storage.

7.1 Precautions for Safe Handling Avoid contact with the eyes, skin and clothing. Avoid breathing vapors. Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep product away from heat, sparks, flames and all other sources of ignition. Do not permit smoking in use or storage areas. Use with non-sparking tools and explosion proof equipment. Electrically bond and ground containers for transfer.

Empty containers retain product residues can be hazardous. Follow all SDS precautions when handling empty containers.

Store in accordance with regulations for the storage of flammable liquids. Store in a dry, well ventilated area away from heat, direct sunlight and all sources of ignition. Store away from oxidizers and other incompatible materials. Protect from physical damage.

7.3 Specific end use(s):

Industrial uses: None identified

Professional uses: Dental Lubricant and Model Separator

Section 8 Exposure Controls/Personal Protection

8.1 Control Parameters:

Isopropanol (Isopropyl Alcohol)	400 ppm TWA OSHA PEL 200 ppm TWA, 400 ppm STEL ACGIH TLV 200 ppm TWA, 400 ppm STEL Belgium OEL 200 ppm TWA, 400 ppm STEL German MAK 200 ppm TWA, 400 ppm STEL Ireland OEL 200 ppm TWA, 400 ppm STEL Spain OEL 200 ppm TWA, 400 ppm STEL UK WEL
Glycerin	5 mg/m^3 TWA OSHA PEL (respirable fraction) 15 mg/m^3 TWA OSHA PEL (total dust) 10 mg/m^3 TWA Belgium OEL 10 mg/m^3 TWA France OEL 50 mg/m^3 TWA, 100 mg/m^3 STEL German MAK 10 mg/m^3 TWA Ireland 10 mg/m^3 TWA Spain OEL 10 mg/m^3 TWA UK WEL

8.2 Exposure Controls:

Recommended Monitoring Procedures: None.

Appropriate engineering controls: Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.

Personal Protective Measurers

Respiratory protection: If the exposure limits are exceeded an approved organic vapor respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice.

Skin protection: For prolonged use wear butyl or nitrile rubber gloves.

Eye protection: Chemical safety goggles if splashing is possible.

Other: Impervious clothing as needed to avoid contamination of personal clothing.

Section 9 Physical and Chemical Properties.

9.1 Information on basic Physical and Chemical Properties

Appearance: Multicolored clear liquid
Odor: Alcohol odor.

Odor threshold: 0.442 (isopropanol)
Melting point/freezing point: -126.2°F (-87.9°C) (isopropanol)
Flash point: 44.6°F (7°C)
Flammability (solid, gas): Not applicable
Flammable limits: LEL: 2.0% (isopropanol)
Vapor pressure: Approximately 33 mmHg at 20@C
Relative density: 0.75-0.85
Partition coefficient: n-octanol/water: Not available
Decomposition temperature: Not available
Explosive Properties: Not applicable

pH: Not available
Boiling point: 179.6°F **(**82ºC)

Evaporation rate: 2.3 (butyl alcohol =1)

UEL: 12.7% (isopropanol)
Vapor density (air = 1): ~2
Solubility In Water: Appreciable
Auto-ignition temperature: 750°F (399°C)
Viscosity: Not applicable
Oxidizing Properties: Not applicable

9.2 Other Information: None available

Section 10 Stability and Reactivity.

10.1 Reactivity: None known.
10.2 Chemical stability: Stable
10.3 Possibility of hazardous reactions: None known.
10.4 Conditions to avoid: Keep away from heat and all sources of ignition.
10.5 Incompatible materials: Avoid oxidizing agents, acids, aldehydes, amines, caustics, chlorinated compounds and alkanolmines.
10.6 Hazardous decomposition products: Thermal decomposition may produce carbon oxides, aldehydes, ketones and polymer fragments.

Section 11 Toxicological Information.

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eyes: May cause irritation with redness, tearing and stinging.
Skin: Prolonged contact may cause irritation and drying of the skin.
Ingestion: Ingestion may cause mucous membrane and gastrointestinal irritation and nervous system depression with symptoms of headache, dizziness, nausea, narcosis and unconsciousness.
Inhalation: Inhalation of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, giddiness, intoxication, nausea, vomiting, disorientation, stupor and unconscious.
Chronic Health Effects: None known.
Mutagenicity: None of the components have been shown to cause mutagenic activity.
Reproductive Toxicity: None of the components have been shown to reproductive or developmental toxicity.
Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC or NTP.

Acute Toxicity Data:
Isopropanol: Oral rat LD50 5840 mg/kg; Inhalation rat LC50 24.6 mg/L/4 hr, Dermal rabbit LD50 12874 mg/kg
Glycerin: Oral rat LD50 27,200 mg/kg, Dermal guinea pig LC50 56,750 mg/kg

Section 12. Ecological Data.

12.1 Ecotoxicity:

Isopropanol: 96 hr LC50 Pimephales promelas 10,000 mg/L, 24 hr LD50 daphnia magna >10,000 mg/L
Glycerin: 96 hr LC50 Oncorhynchus mykiss 54,000 mg/L, 48 hr LD50 daphnia magna 1955 mg/L

12.2 Persistence and degradability: Isopropanol and glycerin are readily biodegradable.
12.3 Bioaccumulative potential: Isopropanol and glycerin have a BCF of 3. This suggests the potential for bioconcentration in aquatic organisms is low.
12.4 Mobility in soil: Isopropanol and glycerin are highly mobile in soil.
12.5 Results of PVT and vPvB assessment: Not required.
12.6 Other adverse effects: Not required.

Section 13. Disposal Considerations.

13.1 Waste Treatment Methods: Dispose in accordance with all national and local regulations.

Section 14. Transport Information.

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	UN1219	Isopropyl Alcohol Solution	3	PG II	
Canadian TDG	UN1219	Isopropyl Alcohol Solution	3	PG II	
EU ADR/RID	UN1219	Isopropyl Alcohol Solution	3	PG II	
IMDG	UN1219	Isopropyl Alcohol Solution	3	PG II	
IATA/ICAO	UN1219	Isopropyl Alcohol Solution	3	PG II	

14.6 Special precautions for User: Not applicable
14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Section 15 Regulatory Information.

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

US Regulations

SARA Section 313 (40 CFR 372): This product contains the following toxic chemical(s) subject to reporting requirements of SARA 313: None
SARA Section 311/312 (40 CFR 370) Hazard Categories: Acute Health, Fire hazard

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA inventory

California: This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity: None

Canadian Regulations

Canadian Workplace Hazardous Materials Information System (WHMIS): Class B2 (Flammable Liquid), Class D Division 2B (Toxic material causing other toxic effects)

Canadian Environmental Protection Act: All of the components of this product are listed on the Domestic Substances List (DSL).

This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS

contains all of the information required by the CPR.

International Chemical Inventories

Australia: All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

China: All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

European Union: All the components in this product are listed on the EINECS inventory or exempt.

Korea: All of the components in this product are listed on the Korean Existing Chemicals List (KECL) or exempt.

New Zealand: All of the components in this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempt.

Philippines: All of the components of this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or exempt.

Taiwan: All of the components of this product are listed on the Taiwan New and Existing Chemical Inventory (NECI).

16. Other Information.

HMIS Rating: Health 2 Flammability 3 Reactivity 0
Hazard: 4-Severe; 3-Serious; 2-Moderate; 1-Slight; 0-Minimum

EU Classes and Risk Phrases for Reference (See Sections 2 and 3)
F Highly Flammable
Xi Irritant
R11 Highly flammable
R36 Irritating to eyes.
R67 Vapors may cause drowsiness and dizziness.

CLP/GHS Classification and H Phrases for Reference (See Section 3)
Flam Liq 2 Flammable Liquid Category 2
Eye Irrit 2 Eye Irritation Category 2
STOT SE 3 Specific Target Organ Toxicity Single Exposure Category 3

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