



SAFETY DATA SHEET
Regulation (EC) No 1907/2006 (REACH)

(Revision: 2/26/2015)

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

1.1 Product Identifier

Product Type: Lubricant for use on dental Die Stones
Trade Names: Lubritex 12 Die Lubricant, PDQ Die Lubricant

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

Product Use: Die lubricant
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
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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.whimix.com

Section 2 Hazard Identification

2.1 Classification of the Substance or Mixture:

CLP/GHS Classification (1272/2008):

Health Hazards	Physical Hazards	Environmental Hazards
Acute Toxicity Category 4 (H302) Skin Irritation Category 2 (H315) Eye Irritation Category 2 (H319) Specific Target Organ Toxicity – Single Exposure Category 2 (H371)	Flammable Liquid Category 2 (H225)	Not Hazardous

EU Classification (67/548/EEC): Highly Flammable (F), Harmful (Xn), Irritant (Xi) R11, R36, R20/21/22, R68/20/21/22

2.2 Label Elements

Danger!



Contains methanol

H225 Highly flammable liquid and vapor.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H371 May cause damage to optic nerve and central nervous system.

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.

P260 Do not breathe dust, fume, gas, mist, vapors or spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves and eye protection.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P330 Rinse mouth.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P332 + P313 If skin irritation occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

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.

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor.

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.

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.

<u>Substance</u>	<u>CAS No. / EC Number</u>	<u>%</u>	<u>EU Classification (67/548/EEC)</u>	<u>CLP/GHS Classification (1272/2008)</u>
Ethanol	64-17-5 / 200-578-6	50-70	F R11	Flam Liq 2 H225
Dodecylbenzene Sulfonate	68584-25-8 / 271-532-0	10-20	Xi, Xn R22, R36/37/38	Acute Tox 4 H302 Skin Irrit. 2 H315 Eye Irrit. 2 H319
Isopropanol (Isopropyl Alcohol)	67-63-0 / 200-661-7	1-10	F Xi R11, R36, R67	Flam Liq 2 H225 Eye Irrit 2 H319 STOT SE 3 H336
Methanol	67-56-1 / 200-659-6	1-<5	F, T, R11, R23/24/25, R39/23/24/25	Flam Liq 2 H225 Acute Tox 3 H301, H311, H331 STOT SE 1 H370
Methyl Isobutyl Ketone	108-10-1 / 203-550-1	1-5	F, Xn R11, R20, R36/37	Flam Liq 2 H225 Acute Tox 4 H332 Eye Irrit 2 H319 STOT SE 3 H335

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 15 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 immediate 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 and visual disturbances.

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

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. Combustion may produce carbon oxides.
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.

7.2 Conditions for Safe Storage, Including any Incompatibilities: 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: Die lubricant

Section 8 Exposure Controls/Personal Protection

8.1 Control Parameters:

Ethanol	1000 ppm STEL ACGIH TLV 1000 ppm TWA Belgium OEL 1000 ppm TWA, 5000 ppm STEL France OEL 500 ppm TWA, 1000 ppm STEL Germany MAK 1000 ppm STEL Ireland OEL
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		1000 ppm STEL Spain OEL 500 ppm TWA, 1000 ppm STEL Sweden OEL 260 mg/m ³ TWA Netherland OEL 1000 ppm TWA UK WEL
	Dodecylbenzene Sulfonate	None Established
	Isopropanol (Isopropyl Alcohol)	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
	Methanol	200 ppm TWA, 250 ppm STEL ACGIH TLV 200 ppm TWA, 250 ppm STEL Belgium OEL 200 ppm TWA, 1000 ppm STEL France OEL 200 ppm TWA, 800 ppm STEL German MAK 200 ppm TWA Ireland OEL 200 ppm TWA Italy OEL 200 ppm TWA, 250 ppm STEL Spain OEL 200 ppm TWA, 250 ppm STEL Sweden OEL 133 mg/m ³ TWA Netherlands OEL 200 ppm TWA, 250 ppm UK WEL
	Methyl Isobutyl Ketone	20 ppm TWA, 75 ppm STEL ACGIH TLV 20 ppm TWA, 50 ppm STEL Belgium OEL 20 ppm TWA, 50 ppm STEL France OEL 20 ppm TWA, 40 ppm STEL MAK 20 ppm TWA, 50 ppm STEL Ireland OEL 20 ppm TWA, 50 ppm STEL Spain OEL 25 ppm TWA, 50 ppm STEL Sweden OEL 104 mg/m ³ TWA Netherlands OEL 20 ppm TWA, 100 ppm STEL 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 or supplied air 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 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: Dark Violet Liquid

Odor: Alcohol odor.

Odor threshold: 0.121 (methyl isobutyl ketone))

Melting point/freezing point: -173.2°F (-114.1°C)
(ethanol)

Flash point: 61°F (16.1°C)

Flammability (solid, gas): Not applicable

Flammable limits: LEL: 1.2% (methyl isobutyl ketone)

Vapor pressure: 42 mmHg at 20°C

Relative density: 0.8

pH: Not available

Boiling point: 172°F (77.8°C)

Evaporation rate: Not available

UEL: 36% (methanol)

Vapor density (air = 1): 3

Solubility In Water: Complete

Partition coefficient: n-octanol/water: Not available
Decomposition temperature: Not available
Explosive Properties: Not applicable

Auto-ignition temperature: 867°F (464°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 and alkalies.

10.6 Hazardous decomposition products: Thermal decomposition may produce carbon oxides.

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. Methanol may be absorbed through the skin causing symptoms listed under ingestion.

Ingestion: Ingestion may cause mucous membrane and gastrointestinal irritation and nervous system depression with symptoms of headache, dizziness, nausea, narcosis and unconsciousness. Methanol is very slowly eliminated from the body. Ingestion of methanol may cause nervous system effects, blurred vision, changes in color perception, blindness, coma and death.

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. Overexposure to may cause central nervous system effects and other systems listed under ingestion.

Chronic Health Effects: Prolonged and repeated overexposure to high concentrations of methanol vapors may have a cumulative effect cause ringing in the ears, insomnia, trembling, unsteady gait, vertigo and clouded or double vision.

Mutagenicity: None of the components have been shown to cause mutagenic activity.

Reproductive Toxicity: Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, resulting in fetal alcohol syndrome. These effects include mental and physical retardation, disturbances of learning, motor and language deficiencies, behavioral disorders and small head size..

Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC or NTP and EU CLP.

Acute Toxicity Data:

Acute Toxicity Estimate: Oral: 1538 mg/kg, Inhalation: >62.5 mg/L/4 hr, Dermal: 6250 mg/kg

Ethanol: Oral rat LD50 10470 mg/kg, Inhalation rat LC50 117 mg/L

Dodecylbenzene Sulfonate: Oral rat LD50 1300 mg/kg

Isopropanol: Oral rat LD50 5840 mg/kg; Inhalation rat LC50 24.6 mg/L/4 hr, Dermal rabbit LD50 12874 mg/kg

Methanol: Oral rat LD50 >1187 mg/kg, Inhalation rat LC50 8.2 mg/L/4 hr, Dermal rat LD50 15800 mg/kg

Methyl Isobutyl Ketone: Oral rat LD50 2080 mg/kg, Inhalation rat LC50 8.2-16.4 mg/L, Dermal rabbit LD50 >2000 mg/kg.

Section 12. Ecological Data.

12.1 Ecotoxicity:

Ethanol: 96 hr LC50 14.2 mg/L, 48 hr LC50 Ceriodaphnia dubia 5012 mg/L, 72 hr EC50 Chlorella vulgaris 275 mg/L

Dodecylbenzene Sulfonate: No data available

Isopropanol: 96 hr LC50 Pimephales promelas 10,000 mg/L, 24 hr LD50 daphnia magna >10,000 mg/L

Methanol: 96 hr LC50 Pimephales promelas 29.4 g/L hr; 24 hr EC50 Daphnia magna >10,000 mg/L/24 hr

Methyl Isobutyl Ketone: 96 hr LC50 Danio rerio >179 mg/L, 48 hr EC50 daphnia magna >200 mg/L

12.2 Persistence and degradability: Isopropanol, methanol, ethanol and dodecylbenzene sulfonate are readily biodegradable.

12.3 Bioaccumulative potential: Ethanol and isopropanol have a BCF of 3. Methyl isobutyl ketone has a BCF of 2. This suggests the potential for bioconcentration in aquatic organisms is low.

12.4 Mobility in soil: Ethanol, methanol, isopropanol and methyl isobutyl ketone 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	UN1993	Flammable Liquid, n.o.s. (Ethanol, Methanol, Methyl Isobutyl Ketone)	3	PG II	
Canadian TDG	UN1993	Flammable Liquid, n.o.s. (Ethanol, Methanol, Methyl Isobutyl Ketone)	3	PG II	
EU ADR/RID	UN1993	Flammable Liquid, n.o.s. (Ethanol, Methanol, Methyl Isobutyl Ketone)	3	PG II	
IMDG	UN1993	Flammable Liquid, n.o.s. (Ethanol, Methanol, Methyl Isobutyl Ketone)	3	PG II	
IATA/ICAO	UN1993	Flammable Liquid, n.o.s. (Ethanol, Methanol, Methyl Isobutyl Ketone)	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:

Methanol	67-56-1	1-5%
Methyl Isobutyl Ketone	108-10-1	1-5%

SARA Section 311/312 (40 CFR 370) Hazard Categories: Acute Health, Chronic Health, Fire hazard

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This product has a Reportable Quantity (RQ) of 100,000 lbs. based on the RQ for methanol of 5,000 lbs. Releases above the RQ must be reported to

the National Response Center. 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:

Methanol	67-56-1	1-5%
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International Chemical Inventories

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

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

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.

Japan: All of the components in this product are listed on the Japanese Existing and New Chemical Substances Inventory (ENCS) or exempt.

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

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

Section 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

T Toxic

Xi Irritant

Xn Harmful

R11 Highly flammable

R20 Harmful by inhalation.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R22 Harmful if swallowed

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed

R36 Irritating to eyes.

R36/37 Irritating to eyes and respiratory system

R36/37/38 Irritating to eyes, respiratory system and skin.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation and if swallowed

R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

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

Acute Tox 3 Acute Toxicity Category 3

Acute Tox 4 Acute Toxicity Category 4

Eye Irrit 2 Eye Irritation Category 2

Skin Irrit. 2 Skin Irritation Category 2

STOT SE 2 Specific Target Organ Toxicity Single Exposure Category 1
STOT SE 3 Specific Target Organ Toxicity Single Exposure Category 3

H225 Highly flammable liquid and vapor
H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in contact with skin
H315 Causes skin irritation
H319 Causes serious eye irritation
H331 Toxic if inhaled
H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H370 Causes damage to organs through prolonged or repeated exposure.

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Date: