

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 02/16/2021 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: DMC Ketones Mix
Product code	: AL0-131132
1.2. Recommended use and restrictions	on use
Use of the substance/mixture	: Certified reference material for laboratory use only
1.3. Supplier	
Phenova 6390 Joyce Dr. Suite 100 Golden, CO 80403 - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com	
1.4. Emergency telephone number	
Emergency number	: ChemTel Assistance (US/Canada) 1-800-255-3924 ChemTel Assistance (International) +1 813-248-0585
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	ixture
GHS US classification	
Flammable liquids H225 Category 2	Highly flammable liquid and vapor
Full text of H statements : see section 16	
2.2. GHS Label elements, including prec	autionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	: H225 - Highly flammable liquid and vapor
Precautionary statements (GHS US)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P370+P378 - In case of fire: Use media other than water to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
2.3. Other hazards which do not result in	classification
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/Informatio 3.1. Substances	n on ingredients
Not applicable	

3.2. Mixtures

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This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general :	Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact :	Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact :	Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion :	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and effects	(acute and delayed)
Potential Adverse human health effects and symptoms	Toxic if swallowed. Toxic in contact with skin.
Symptoms/effects after skin contact :	Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
Symptoms/effects after ingestion :	Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
4.3. Immediate medical attention and spec	ial treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishin	g media
Suitable extinguishing media :	Use extinguishing media appropriate for surrounding fire.
	Do not use a heavy water stream.
5.2. Specific hazards arising from the cher	nical
	Highly flammable liquid and vapor.
	May form flammable/explosive vapor-air mixture.
5.3. Special protective equipment and pred	cautions for fire-fighters
	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any
	chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting :	Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measu	
6.1. Personal precautions, protective equip	oment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures :	Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment :	Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.
Emergency procedures :	Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify a	uthorities if liquid enters sewers or public waters.
6.3. Methods and material for containment	and cleaning up
Methods for cleaning up :	Take up in absorbent material. Collect spillage.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal pr	otection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
	Handle empty containers with care because residual vapors are flammable.

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Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools.
Hygiene measures	 Do not eat, drink or smoke when using this product. Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage	, including any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
Storage conditions	: Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.
Incompatible materials	: Direct sunlight. Heat sources.

SECTION 8: Exposure controls/personal protection

DMC Ketones Mix		
ACGIH	Local name	Methanol
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	250 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: Headache; eye dam; dizziness; nausea. Notations: Skin; BEI
ACGIH	Regulatory reference	ACGIH 2021
OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Either local exhaust or general room ventilation is usually required.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.

Hand protection:

Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration

Eye protection:

Chemical goggles or safety glasses. Safety glasses

Skin and body protection:

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
	: Colorless	
	: characteristic	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Highly flammable liquid and vapor.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: No data available	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Highly flammable liquid and vapor. May form fla	mmable/explosive vapor-air mixture	
10.3. Possibility of hazardous reactions		
Not established.		
10.4. Conditions to avoid Direct sunlight. Extremely high or low temperatu	res. Onen flame	
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
May release flammable gases.		
SECTION 11: Toxicological information	tion	
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Despiratory or alvin consitization		

Carcinogenicity

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Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin.
Symptoms/effects after skin contact	 Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity		
No additional information available		
12.2. Persistence and degradability		
DMC Ketones Mix		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
DMC Ketones Mix		
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
No additional information available		

12.5. Other adverse effects

DMC Katanaa Min	
DMC Ketones Mix	
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ns
13.1. Disposal methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1993 Flammable liquids, n.o.s. (methanol-d1), 3, II
UN-No.(DOT)	: UN1993

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Class (DOT) Packing group (DOT) Hazard labels (DOT)

Proper Shipping Name (DOT)

DOT Packaging Non Bulk (49 CFR 173.xxx)

: 202

: Flammable liquids, n.o.s.

methanol-d1

: II - Medium Danger

: 3 - Flammable liquid

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DOT Packaging Bulk (49 CFR 173.xxx)		242
DOT Special Provisions (49 CFR 172.102)		IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 55 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 L
DOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Emergency Response Guide (ERG) Number	:	128
Other information	:	No supplementary information available.
Transportation of Dangerous Goods		
Not applicable		
Transport by sea		
Transport document description (IMDG)	:	UN 1993 FLAMMABLE LIQUID, N.O.S. (methanol-d1), 3, II
UN-No. (IMDG)	:	1993
Proper Shipping Name (IMDG)	:	FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	:	3 - Flammable liquids
Packing group (IMDG)	:	II - substances presenting medium danger
Limited quantities (IMDG)	:	1L
Air transport		
Transport document description (IATA)	:	UN 1993 Flammable liquid, n.o.s. (methanol-d1), 3, II
UN-No. (IATA)	:	1993
Proper Shipping Name (IATA)	:	Flammable liquid, n.o.s.
Class (IATA)	:	3 - Flammable Liquids
Packing group (IATA)	:	II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA No additional information available

EU-Regulations No additional information available

National regulations No additional information available

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15.3. US State regulations

No additional information available

SE	CTION 16: Other informatic	n
Data	a sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Oth	er information	: None.
Full	text of H-phrases:	
	H225	Highly flammable liquid and vapor

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