

09-0871

## Safety Data Sheet MEK

Safety Data Sheet date: 2/21/2023, version 3

### 1. IDENTIFICATION

#### Product identifier

Mixture identification:  
Trade name: MEK  
Other means of identification:  
SDS code: C932002-NA

#### Recommended use of the chemical and restrictions on use

Recommended use:  
Solvent  
Cleaner  
Industrial uses  
Professional uses  
Restrictions on use:  
No uses advised against are identified.

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

##### Manufacturers:

Dysol Inc. - 5475 E. State Highway 114, Rhome Texas, 76078 / Phone: 1-817-335-1826 /  
csr-na@socomore.com/ Fax Number: 817-335-2405

##### Distributors:

Dysol Inc. - 5475 E. State Highway 114, Rhome Texas, 76078 / Phone: 1-817-335-1826 /  
csr-na@socomore.com/ Fax Number: 817-335-2405  
Socomore Canada Limited - Unit 204, 6741 Cariboo Road, Burnaby V3N 4A3, British  
Columbia, Canada / Email: csr-ca@socomore.com / Phone: +1 604 420 7707 / Fax: +1 604  
420 7701

#### Competent person responsible for the safety data sheet:





techdirsocomore@socomore.com

#### Emergency phone number:

CHEMTEL: +1-813-248-0585 (International); 1-800-255-3924 (USA); CANUTEC:  
1-613-996-6666 (CANADA)  
Socomore Canada Limited - +1-604-420-7707 (Monday-Friday; 7:30 am - 5:00 pm)

### 2. HAZARD(S) IDENTIFICATION

#### Classification of the chemical

-  Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
-  Warning, Skin Irrit. 2, Causes skin irritation.
-  Warning, Eye Irrit. 2A, Causes serious eye irritation.
-  Warning, STOT SE 3, May cause drowsiness or dizziness.

#### Label elements

Hazard pictograms:



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#### Danger

#### Hazard statements:

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

#### Precautionary statements:

P210 Keep away from heat - No smoking.

P240 Ground container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing vapours.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves and eye/face protection.

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

Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER if you feel unwell.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

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

P370+P378 In case of fire, use a CO2 fire extinguisher to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with applicable regulations.

#### Special Provisions:

None

#### Hazards not otherwise classified identified during the classification process:

None

#### Ingredient(s) with unknown acute toxicity:

None.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

Identification of the substance:

SDS code: C932002-NA

>= 90% butanone; ethyl methyl ketone

REACH No.: 01-2119457290-43, Index number: 606-002-00-3, CAS: 78-93-3, EC: 201-159-0

⚠ A.2/2 Skin Irrit. 2 H315

⚠ B.6/2 Flam. Liq. 2 H225

⚠ A.3/2A Eye Irrit. 2A H319

⚠ A.8/3 STOT SE 3 H336

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Mixtures:  
N.A.

#### 4. FIRST-AID MEASURES

##### Description of necessary measures

##### In case of skin contact:

Immediately take off all contaminated clothing.  
Remove contaminated clothing immediately and dispose of safely.  
After contact with skin, wash immediately with soap and plenty of water.

##### In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.  
Protect uninjured eye.

##### In case of Ingestion:

Do not induce vomiting. Obtain a medical examination.

##### In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

##### Most important symptoms/effects, acute and delayed

Burning sensation.  
Repeated exposure may cause skin dryness or cracking.  
Swelling  
Blurred vision.  
Tearing.  
Swollen eyelids.  
Itching.  
Vapours may cause drowsiness and dizziness.  
Temporary burning sensation of nose and throat.  
Cough  
Difficulty breathing.

##### Indication of immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### Treatment:

Call a doctor or poison control center for further instructions.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media:

In case of fire, use a CO2 fire extinguisher to extinguish.

##### Unsuitable extinguishing media

None in particular.

##### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.  
Burning produces heavy smoke.

##### Hazardous combustion products:

None

**Explosive properties:** N.A.

**Oxidizing properties:** N.A.

##### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.

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#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment, and emergency procedures

- Wear personal protection equipment.
- Remove all sources of ignition.
- Remove persons to safety.
- See protective measures under point 7 and 8.

##### Methods and materials for containment and cleaning up

- Wash with plenty of water.

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#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Do not use on extensive surface areas in premises where there are occupants.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- See also section 8 for recommended protective equipment.
- Advice on general occupational hygiene:
  - Contaminated clothing should be changed before entering eating areas.
  - Do not eat or drink while working.

##### Conditions for safe storage, including any incompatibilities

- Always keep in a well ventilated place.
- Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
- Avoid accumulating electrostatic charge.
- Keep away from food, drink and feed.
- Incompatible materials:
  - None in particular.
- Instructions as regards storage premises:
  - Cool and adequately ventilated.
  - Safety electric system.
- Storage temperature:
  - Store at ambient temperature.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Control parameters

- butanone; ethyl methyl ketone - CAS: 78-93-3
  - OEL Type: National - TWA: 600 mg/m<sup>3</sup>, 200 ppm - STEL: 900 mg/m<sup>3</sup>, 300 ppm - Notes: France VLEC
  - OEL Type: EU - TWA(8h): 600 mg/m<sup>3</sup>, 200 ppm - STEL: 900 mg/m<sup>3</sup>, 300 ppm
  - OEL Type: ACGIH - TWA(8h): 200 ppm - STEL: 300 ppm - Notes: BEI - URT irr, CNS and PNS impair
  - OEL Type: National - TWA: 600 mg/m<sup>3</sup>, 200 ppm - Notes: AGW, Germany
  - OEL Type: MAK - TWA: 295 mg/m<sup>3</sup>, 100 ppm - STEL(30min (Miw)): 590 mg/m<sup>3</sup>, 200 ppm - Notes: Osterreich

##### DNEL Exposure Limit Values

- butanone; ethyl methyl ketone - CAS: 78-93-3
  - Worker Industry: 1161 mg/kg - Consumer: 412 mg/kg - Exposure: Human Dermal - Frequency: Short Term (acute) - Notes: 1 day
  - Worker Industry: 600 mg/m<sup>3</sup> - Consumer: 106 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term (acute)
  - Consumer: 31 mg/kg - Exposure: Human Oral - Frequency: Short Term (acute)

##### PNEC Exposure Limit Values

- butanone; ethyl methyl ketone - CAS: 78-93-3

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Target: Fresh Water - Value: 55.8 mg/l  
 Target: Marine water - Value: 55.8 mg/l  
 Target: Freshwater sediments - Value: 284.74 mg/kg  
 Target: Marine water sediments - Value: 287.7 mg/kg  
 Target: Soil (agricultural) - Value: 22.5 mg/kg

#### Appropriate engineering controls:

None

#### Individual protection measures

##### Eye protection:

Safety goggles (EN 166)

Use closed fitting safety goggles, don't use eye lens.

##### Protection for skin:

Chemical protection clothing. (type 3 - EN14605)

Chemical protection clothing. (type 5 - EN13982-1)

Chemical protection clothing. (type 6 - EN13034)

##### Protection for hands:

Suitable gloves type: NF EN374

PVA (Polyvinyl alcohol).

Butyl rubber (isobutylene-isoprene copolymer)

##### Respiratory protection:

Use adequate protective respiratory equipment.

Filtering Half-face mask (NF EN 149), class FFP1

Mask with filter "A1" , brown colour (NF EN14387)

##### Thermal Hazards:

None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:		--	--
Odour:	N.A.	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	77 79 81 C / 172 175 178 F	--	--
Flash Point (F):	28 F (TCC)	--	--
Flash point (C):	-2 C (TCC)	--	--
Evaporation rate:	3.6	--	--
Solid/gas flammability:	Not Relevant	--	--
Upper/lower flammability or explosive limits:	1.8	--	--
Vapour pressure:	70	--	--
Vapour density:	2.5	--	--
Relative density:	0.805	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	515 C / 960	--	--

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	F		
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

#### 9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

## 10. STABILITY AND REACTIVITY

### Reactivity

Vapours may form an explosive mixture with air.

### Chemical stability

It may generate dangerous reactions (See subsections below)

### Possibility of hazardous reactions

None

### Conditions to avoid

Avoid accumulating electrostatic charge.

### Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### Hazardous decomposition products

None.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Toxicological information of the substance:

N.A.

### Substance(s) listed on the NTP report on Carcinogens:

No.

### Substance(s) listed on the IARC Monographs:

None.

### Substance(s) listed as OSHA Carcinogen(s):

No.

### Substance(s) listed as NIOSH Carcinogen(s):

No.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.  
butanone; ethyl methyl ketone - CAS: 78-93-3

#### a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 13 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 168 - Notes: Desmodesmus subspicatus

### Persistence and degradability

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butanone; ethyl methyl ketone - CAS: 78-93-3

Biodegradability: Readily biodegradable - Duration: 28 days - %: 98 - Notes: aerobic

#### Bioaccumulative potential

butanone; ethyl methyl ketone - CAS: 78-93-3

Log Pow 0.3

Log Kow 0.3

#### Mobility in soil

N.A.

#### Other adverse effects

No harmful effects expected.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment and disposal methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

### 14. TRANSPORT INFORMATION



#### UN number

ADR-UN Number: 1193

DOT number: UN1193

IATA-UN Number: 1193

IMDG-UN Number: 1193

#### UN proper shipping name

ADR-Shipping Name: ETHYL METHYL KETONE (METHYL ETHYL KETONE)

DOT-Shipping Name: Ethyl methyl ketone or Methyl ethyl ketone

IATA-Shipping Name: ETHYL METHYL KETONE (METHYL ETHYL KETONE)

IMDG-Shipping Name: ETHYL METHYL KETONE (METHYL ETHYL KETONE)

#### Transport hazard class(es)

ADR-Class: 3

DOT Hazard Class: 3

ADR - Hazard identification number: 33

IATA-Class: 3

IATA-Label: 3

IMDG-Class: 3

#### Packing group

ADR-Packing Group: II

DOT Packing group: II

IATA-Packing group: II

IMDG-Packing group: II

#### Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

N.A.

#### Special precautions

DOT Special provisions: IB2, T4, TP1

DOT Labels: 3

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ADR-Subsidiary hazards: -  
ADR-S.P.: -  
ADR-Transport category (Tunnel restriction code): (D/E)  
IATA-Passenger Aircraft: 353  
IATA-Subsidiary hazards: -  
IATA-Cargo Aircraft: 364  
IATA-S.P.: -  
IATA-ERG: 3L  
IMDG-EmS: F-E , S-D  
IMDG-Subsidiary hazards: -  
IMDG-Stowage and handling: Category B  
IMDG-Segregation: -

Q.L.: 1L

Q.E.: E2

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## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

This substance is listed on the TSCA inventory.

TSCA sections for substances listed in section 3:

butanone; ethyl methyl ketone is listed in TSCA Section 8d HSDR, Section 8b.

#### SARA - Superfund Amendments and Reauthorization Act

Section 302 Extremely Hazardous Substances: No.

Section 304 Hazardous substances: Yes.

Section 313 Toxic chemical list: No.

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: butanone; ethyl methyl ketone - Reportable quantity: 5000 pounds.

#### CAA - Clean Air Act

CAA listed substances:

butanone; ethyl methyl ketone is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON.

#### CWA - Clean Water Act

CWA listed substances:

None.

### USA - State specific regulations

#### California Proposition 65

Substance(s) listed under California Proposition 65:

None.

#### Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

Yes.

#### New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

Yes.

#### Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Yes.

The following substance(s) in this product has/have an identification by CAS number either in countries not affected by the REACH regulation or in regulations not yet updated to reflect the new naming convention for hydrocarbon solvents:



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#### 16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

- H315 Causes skin irritation.
- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

Safety Data Sheet date: 2/21/2023, version 3

Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average