

H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H361 - Suspected of damaging fertility or the unborn child

Precautionary statements

General

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P103 - Read label before use.

Prevention

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P223 - Keep away from any possible contact with water, because of violent reaction and possible flash fire
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P262 - Do not get in eyes, on skin, or on clothing
P264 - Wash skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/protective clothing and eye/face protection

Response

General

P308 + P313 - IF exposed or concerned: Get medical advice/attention

Eyes

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 advice/attention

Skin

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

Inhalation

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Ingestion

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P330 - Rinse mouth

Fire

P370 - P378 - IN CASE OF FIRE: Use dry chemical, foam or water fog for extinction.

Storage

P405 - Store locked up
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Disposal

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Hazard(s) Not Otherwise Classified (HNOC)

None known.

Physical Hazards Not Otherwise Classified (PHNOC)

None known.

Unknown acute toxicity

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition Mixture.

Chemical name	CAS-No	Weight %
Nitromethane	75-52-5	70-90
Methyl ethyl ketone	78-93-3	20-30

4. FIRST-AID MEASURES**Necessary first-aid measures**

General Information	Show this safety data sheet to the doctor in attendance.
Inhalation	Move to fresh air. Keep warm and quiet. If symptoms persist, call a physician.
Ingestion	Call a physician or Poison Control Center immediately. Do not induce vomiting without medical advice.
Skin contact	Wash off immediately with soap and plenty of water. Seek medical attention if irritation occurs. If skin irritation persists, call a physician.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Seek medical attention.
Most important symptoms (acute)	No known significant effects or critical hazards.
Most important symptoms (over-exposure)	No known significant effects or critical hazards.
Indication of any immediate medical attention and special treatment needed	None known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Sand. Foam. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Full water jet.
Specific hazards	None known.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation, especially in confined areas. Refer to protective measures listed in sections 7 and 8. Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, universal binders). Sweep up product. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Use only with adequate ventilation. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Do not store together with oxidizing and self-igniting products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
Nitromethane	100 ppm TWA 250 mg/m ³ TWA	20 ppm TWA	-
Methyl ethyl ketone	200 ppm TWA 590 mg/m ³ TWA	200 ppm TWA	200 ppm TWA 590 mg/m ³ TWA

Appropriate engineering controls

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment**Eye protection**

Tightly fitting safety goggles. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection

Long sleeved clothing. Wear appropriate clothing to prevent skin contact. Neoprene gloves. Nitrile gloves. Butyl rubber gloves.

Respiratory protection

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Wear a NIOSH approved organic vapor respirator.

Hygiene measures

Avoid contact with skin, eyes and clothing.

Canadian Province Occupational Exposure Limits

Chemical name	AB	BC	MB	NB	NL	NS	ON	PE	QC	SK
Nitromethane	20 ppm TWA 50 mg/m ³ TWA	20 ppm TWA	20 ppm TWA	20 ppm TWA 50 mg/m ³ TWA	20 ppm TWA	20 ppm TWA	20 ppm TWA	20 ppm TWA	100 ppm TWA 250 mg/m ³ TWA	20 ppm TWA
Methyl ethyl ketone	200 ppm TWA 590 mg/m ³ TWA	50 ppm TWA	200 ppm TWA	200 ppm TWA 590 mg/m ³ TWA	200 ppm TWA	200 ppm TWA	200 ppm TWA	200 ppm TWA	50 ppm TWA 150 mg/m ³ TWA	200 ppm TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Liquid

Color

Light yellow

Odor

Characteristic

Odor threshold

Not available

pH

Not available

Melting point/range °C	Not available
Melting point/range °F	Not applicable
Boiling point/range °C	No data available
Boiling point/range °F	No data available
Flash point °C / °F	No data available
Flash point method used	Not available
Evaporation rate	Not applicable
Flammability (Solid, Gas)	Not applicable
Lower explosion limit	Not available
Upper explosion limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.05
Solubility	Not available
Partition coefficient (n-octanol/water)	Not available
Autoignition temperature °C	No data available
Autoignition temperature °F	No data available
Decomposition temperature °C	Not available
Decomposition temperature °F	Not available
Viscosity	Not available

10. STABILITY AND REACTIVITY

Reactivity	Not available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	Not available.
Incompatible materials	Not available.
Hazardous decomposition products	Nitrogen oxides (NOx). Oxides of sulfur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	Not available.
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Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure Not applicable.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Nitromethane	>12.75 mg/L Rat	= 940 mg/kg Rat >2000 mg/kg Rabbit	940 mg/kg Rat > 2000 mg/kg Rabbit
Methyl ethyl ketone	11700 ppm Rat	= 2483 mg/kg Rat = 2737 mg/kg Rat 5000 mg/kg Rabbit	2483 mg/kg Rat = 5000 mg/kg Rabbit = 6480 mg/kg Rabbit

ATEmix (dermal) Not available

ATEmix (oral) 645.67 mg/kg

ATEmix (inhalation-gas) Not available

ATEmix (inhalation-vapor) 14.2 mg/l

ATEmix (inhalation-dust/mist) Not available

Carcinogenicity

Chemical name	ACGIH OEL - Carcinogens	IARC	OSHA Carcinogens	NTP
Nitromethane	A3	Group 2B	Present	Reasonably Anticipated Carcinogen
Methyl ethyl ketone	-	-	-	-

Canadian Province carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Nitromethane	-	IARC 2B	ACGIH A3	-	ACGIH A3	-
Methyl ethyl ketone	-	-	-	-	-	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish LC50
Nitromethane	=36mg/L <i>Desmodesmus subspicatus</i> 72h	< 278mg/L <i>Pimephales promelas</i> 96h = 460mg/L <i>Brachydanio rerio</i> 48h
Methyl ethyl ketone	-	3130 - 3320mg/L <i>Pimephales promelas</i> 96h

Persistence and degradability Not available.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)	Bioconcentration factor (BCF)
Nitromethane 75-52-5	75-52-5	-0.34 - 0.17	1.4 species: fish
Methyl ethyl ketone 78-93-3	78-93-3	0.3 (EU2016/266)	-

Mobility in soil Not available.

Other adverse effects Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs

13. DISPOSAL CONSIDERATIONS

Disposal information Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Contaminated packaging Dispose in accordance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT

ID-No 1993
 Proper shipping name flammable liquid, n.o.s. (nitromethane, 2-butanone)
 Hazard Class(es) 3
 Subsidiary Risk
 Packing group II

TDG

ID-No 1993
 Proper shipping name flammable liquid, n.o.s. (nitromethane, 2-butanone)
 Hazard Class(es) 3
 Subsidiary Risk
 Packing group II

IATA

ID-No 1993
 Proper shipping name flammable liquid, n.o.s. (nitromethane, 2-butanone)
 Hazard Class(es) 3
 Subsidiary Risk
 Packing group II

IMDG/IMO

ID-No 1993
 Proper shipping name flammable liquid, n.o.s. (nitromethane, 2-butanone)
 Hazard Class(es) 3
 Subsidiary Risk
 Packing group II
 EmS No

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
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Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
Nitromethane	75-52-5	-	-	-
Methyl ethyl ketone	78-93-3	-	-	-

Special Precautions

Multi-modal shipping descriptions are provided for informational purposes and do not consider container size. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

15. REGULATORY INFORMATION

State regulations**U.S. state Right-to-Know regulations**

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
Nitromethane	75-52-5	X	X	X
Methyl ethyl ketone	78-93-3	X	X	X

California Prop. 65

Chemical name	CAS-No	California Prop. 65
Nitromethane	75-52-5	Carcinogen
Methyl ethyl ketone	78-93-3	-

U.S. Federal Regulations**US EPA SARA 313**

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Nitromethane	75-52-5	-	0.1 %
Methyl ethyl ketone	78-93-3	5000 lb 2270 kg	-

US EPA SARA 311/312 hazardous categorization

Acute Health Hazard
Chronic Health Hazard
Fire Hazard

TSCA and Canadian Inventories

Chemical name	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification	DSL	NDSL
Nitromethane	X	-	X	-
Methyl ethyl ketone	X	-	X	-

Legend X - Listed

16. OTHER INFORMATION

NFPA

Health	2
Flammability	3
Instability	0

HMIS

Health	2 *
Flammability	3
Physical hazards	0

Notice: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

Prepared by Regulatory Affairs

Issue date 22-Jan-2021

Revision date 23-Dec-2020

Revision note

Key to abbreviations

ACGIH (American Conference of Governmental Industrial Hygienists)
ATE (Average Toxicity Estimate)
DSL/NDL (Domestic Substance List/Non-Domestic Substance List)
HMIS (Hazardous Materials Identification System)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IMDG/IMO (International Maritime Dangerous Goods/International Maritime Organization)
NFPA (National Fire Protection Association)
NTP (National Toxicology Program)
OEL (Occupational Exposure Level)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEL (Permissible Exposure Limit)
TSCA (Toxic Substances Control Act)
USEPA (United States Environmental Protection Agency)

Disclaimer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

End of Safety Data Sheet