Safety Data Sheet

Section 1: Identification

Product Name: Methyl Acetate, High purity
Synonyms: Acetic Acid Methyl Ester
CAS #: 79-20-9
Chemical Formula: C3H6O2

Company:
QUAKER CITY CHEMICALS, INC.
7360 Milnor Street
Philadelphia, PA 19136
(215) 333-2000 • Fax (215) 333-4408
www.chemical.net

Emergency Number: CHEMTREC 800-424-9300

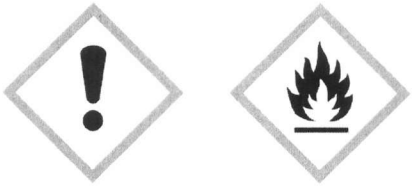
Recommended Use: Solvent, Industrial uses.
Restrictions on Use: No data available.

Section 2: Hazard Identification

GHS Label elements:

GHS Classification	Category
Flammable liquid	2
Serious eye damage/irritation	2A
Specific target organ toxicity, single exposure; Narcotic effects	3

Pictogram:



Signal Word: **Danger**

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

Code	Precautionary Statement
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
P241	Use explosion proof equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fumes/gas/mist/vapor/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.

P280	Wear protective gloves/clothing and eye/face protection.
P303+ P361+ P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse with water [or 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/doctor, if you feel unwell.
P337+ P313	If eye irritation persists: Get medical advice/attention.
P370+ P378	In case of fire: Use water mist, dry chemical, carbon dioxide, or alcohol resistant foam to extinguish.
P403	Store in a well-ventilated place.
P403+ P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional regulations.

Other classifications:

NFPA Rating:		**HMIS Rating:**	
Health:	2	Health:	2
Fire:	3	Flammability:	3
Reactivity:	0	Physical:	0

Section 3: Composition / Information on Ingredients

Component	CAS Number	Concentration	EC Number
Methyl Acetate	79-20-9	99.5 - 100 %	201-185-2

Section 4: First Aid Measures

Inhalation:
Remove to fresh air.
If breathing is difficult, give oxygen provided a qualified individual is present.
If not breathing, apply artificial respiration.
Get medical assistance if symptoms occur.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel.
If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
If victim is conscious and alert, give plenty of water to drink in small portions.
Never give anything by mouth to an unconscious person.
Get immediate medical attention.

Skin Contact:
Flush skin with plenty of soap and water for at least 15 minutes, while removing contaminated clothing and shoes.
Wash clothing before reuse or discard if they cannot be thoroughly cleaned.
Get medical assistance if irritation persists.

Eye Contact:
Flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower eyelids.
Get immediate medical attention.

Note to Physician:
Treat symptomatically and supportively.

Section 5: Fire Fighting Measures

Extinguishing Media:
Use water mist, dry chemical, carbon dioxide, or alcohol resistant foam.

Do NOT use solid water stream as it may spread fire.

Use water to cool exposed containers.
Containers may explode in the heat of a fire.
Move fire-exposed containers, if safe to do so.

Special Protective Equipment: Wear a self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and full protective gear.

Specific Hazards: Highly flammable liquid and vapor.
Fire residues and contaminated water must be disposed of in accordance with local regulations.
Evacuate personnel upwind in-order to avoid inhalation of irritating/harmful fumes and smoke.
Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.
Vapors may form explosive mixture with air.
Dike fire control water for appropriate disposal.

Section 6: Accidental Release Measures

Emergency Procedures: Wear personal protection equipment.
Avoid contact with skin, eyes and clothing.
Avoid breathing vapors, mist or gas.
Ensure adequate ventilation.
Keep unnecessary personnel away and upwind.
Remove all sources of ignition.

Environmental Precautions: Prevent further leakage or spillage if safe to do so.
Do not let product enter soil, ditches, sewers, waterways, or groundwater.

Methods of containment/cleanup: Absorb with inert materials and place into appropriate containers for disposal.
Large spills should be collected mechanically (remove by pumping) for disposal.
Notify appropriate authorities and dispose of in accordance with applicable requirements.

Section 7: Handling and Storage

Handling: Wear personal protection equipment.
Avoid contact with eyes, skin and clothing.
Avoid ingestion and inhalation.
Use only in well-ventilated area.
Wash thoroughly after handling.

Empty containers retain product residue (liquid and/or vapor), and can be dangerous.
Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to sources of ignition.

Ground and bond containers when transferring material to avoid static discharges.
Use spark-proof tools and explosion-proof equipment.
Take precautionary measures against static discharge.

Storage: Store tightly closed container in a cool, dry, well-ventilated area away from direct sunlight.
Keep isolated from incompatible materials.

Keep away from heat, sparks, flame and other sources of ignition.

Protect from freezing.
Maximum temperature allowed during storage: 100 °C

Section 8: Exposure Controls / Personal Protection

Exposure Limits:	Regulator:	Test:	Allowance:
	OSHA	PEL	200 ppm
	ACGIH	TWA	200 ppm
	ACGIH	STEL	250 ppm

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
An emergency eye wash/shower must be readily accessible to the work area.

Personal Protective Equipment:

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134. In confined areas, use a self-contained breathing apparatus.

Skin Protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Recommended glove material: Butyl rubber

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Section 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	Clear, colorless
Odor:	Pleasant
Odor Threshold:	No data available
pH:	3.9
Melting/Freezing Point:	-98 °C
Boiling Point:	55°C to 57 °C
Decomposition Temperature:	No data available
Flash Point:	-14 °C
Auto-ignition Temperature:	505 °C
Flammability/Explosive Limits:	3.1 to 16.0 % (V)
Vapor Pressure:	220 hPa at 20 °C
Vapor Density (air=1):	2.55
Relative Density (water=1):	0.933 g/cm³
Solubility (in water):	239 g/L at 20°C
Partition coefficient: n-Octanol/water:	Log Pow: 0.18
Evaporation Rate (Butyl Acetate=1)	No data available
Kinematic Viscosity	No data available
Molecular Weight:	74.08 g/mol

Section 10: Stability and Reactivity

Stabilitv: Stable at room temperature and under normal conditions.

Hazardous Reactions: Polymerization will not occur.
Vapors may form explosive mixture with air.

Conditions to Avoid: Avoid heat, sparks, open flames and other sources of ignition.

Incompatible Materials: Oxidizing agents. Reacts with alkalis to form methanol and heat.

Decomposition Products: Carbon oxides, incompletely burnt hydrocarbons.
At low oxygen levels: acetic acid.

Section 11: Toxicological Information

Potential Health Effects:

Inhalation: May be harmful if inhaled.
May cause drowsiness and dizziness.

Skin Contact: May be harmful if absorbed through skin.

Eye Contact: Causes serious eye irritation.

Ingestion: May be harmful if swallowed.

Numerical Measures of Acute Toxicity:

Route	Test	Subject	Value	Time
Dermal	LD 50	Rat	> 2,000 mg/kg	
Inhalation	LC 50	Rat	> 49.2 mg/L	4 hours
Oral	LD 50	Rat	> 6,482 mg/kg	

Additional Information:

RTEC #: AI9100000

Carcinogenicity: This product is not classified as a carcinogen by IARC or U.S. ACGIH, NTP or OSHA.

Germ cell mutagenicity: Did not show mutagenic effects in animal experiments.

Reproductive toxicity: Not classified based on available information.

Sensitization: Not classified based on available information.

STOT - Repeated Exposure: Not classified based on available information.

STOT - Single Exposure: Vapors may be narcotizing.
May cause drowsiness or dizziness.

Section 12: Ecological Information

Ecotoxicity	Group	Test	Subject	Value	Time
	Fish:	LC 50	Danio rerio	250 - 350 mg/L	96 hours
	Aquatic invertebrates:	EC 50	Daphnia magna	1,026.7 mg/L	48 hours
	Aquatic plants:	EC 50	Desmodesmus subspicatus	> 120 mg/L	72 hours
	Micro-organisms:	EC 50	Pseudomonas putida	6,000 mg/L	16 hours

Persistence and Degradability: Readily Biodegradable.

Bioaccumulative Potential: Low potential for bioaccumulation.

Mobility in Soil: High potential for soil mobility.

Section 13: Disposal Considerations

Packaging:	Empty containers may retain product residue, follow label warnings even after container is emptied.
Disposal:	Dispose of according to Federal, State, and Local Regulations.

Section 14: Transportation Information

The information in this section is for reference only and should not take the place of a bill of lading specific to an order.

UN #:	UN1231
Proper Shipping Name:	Methyl Acetate
Transport Hazard Class:	3
Packing Group:	II
Labels & Placards:	FLAMMABLE
Marine Pollutant:	No
EMS:	F-E, S-D

Section 15: Regulatory Information

US Federal - TSCA:	This product is listed on the TSCA active inventory.
California - Prop 65:	This product can expose you to chemicals, including Methanol (CAS: 67-56-1) and 1,2-Ethanediol (CAS: 107-21-1), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. This product can expose you to chemicals, including Acetaldehyde (CAS: 75-07-0), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Section 16: Other Information

Revision Date:	Wednesday, February 26, 2020

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.