

1 - Product and Company Information

ProductName2-METHYL-1-BUTEN-3-YNE

2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Extremely flammable. Harmful by inhalation and if swallowed.
Irritating to eyes, respiratory system and skin. Harmful: may
cause lung damage if swallowed.

3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
2-METHYL-1-BUTEN-3-YNE	78-80-8	201-144-9	None

Formula	C5H6
Molecular Weight	66.1 AMU
Synonyms	Isopropenylacetylene * 2-Methyl-1-buten-3-yne * Valylene

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give
artificial respiration. If breathing is difficult, give oxygen.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is
conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: For small (incipient) fires, use media such as
"alcohol" foam, dry chemical, or carbon dioxide. For large
fires, apply water from as far as possible. Use very large
quantities (flooding) of water applied as a mist or spray; solid
streams of water may be ineffective. Cool all affected
containers with flooding quantities of water.

SPECIAL RISKS

Specific Hazard(s): Extremely flammable. Emits toxic fumes under
fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing
to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy
rubber gloves.

METHODS FOR CLEANING UP

Cover with dry lime or soda ash, pick up, keep in a closed
container, and hold for waste disposal. Ventilate area and wash
spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Avoid
contact with eyes, skin, and clothing. Avoid prolonged or
repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat,
sparks, and open flame.
Store at 2-8°C

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before
reuse.

PERSONAL PROTECTIVE EQUIPMENT

Special Protective Measures: Wear appropriate government approved
respirator, chemical-resistant gloves, safety goggles, other
protective clothing.

9 - Physical and Chemical Properties

Appearance	Color: Yellow-green Form: Clear liquid	
Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	32 °C	760 mmHg
MP/MP Range	- 113.0 °C	
Flash Point	- 6.0 °C	Method: closed cup
Flammability	N/A	
Autoignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	N/A	
SG/Density	0.709 g/cm3	
Partition Coefficient	N/A	
Viscosity	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

10 - Stability and Reactivity

STABILITY

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

11 - Toxicological Information

RTECS NUMBER: EN0960000

ACUTE TOXICITY

LD50
Oral
Mouse
350 mg/kg

LC50
Inhalation
Mouse
12,600 mg/m3
Remarks: Behavioral:Somnolence (general depressed activity).
Behavioral:Ataxia. Lungs, Thorax, or Respiration:Other changes.

IRRITATION DATA

Skin
Rabbit
500 mg
Remarks: Moderate irritation effect

SIGNS AND SYMPTOMS OF EXPOSURE

Symptoms of exposure may include burning sensation, coughing,
wheezing, laryngitis, shortness of breath, headache, nausea, and
vomiting. To the best of our knowledge, the chemical, physical,
and toxicological properties have not been thoroughly
investigated.

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.
Multiple Routes: Vapor or mist is irritating to the eyes, mucous
membranes, and upper respiratory tract. Harmful if swallowed,

inhaled, or absorbed through skin.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Burn in a chemical incinerator equipped with an afterburner and
scrubber but exert extra care in igniting as this material is
highly flammable. Observe all federal, state, and local
environmental regulations.

14 - Transport Information

RID/ADR

UN#: 3295
Class: 3
PG: I
Proper Shipping Name: Hydrocarbons, liquid, n.o.s.

IMDG

UN#: 3295
Class: 3
PG: I
Proper Shipping Name: Hydrocarbons, liquid, n.o.s.
Marine Pollutant: No
Severe Marine Pollutant: No
Technical Name: Required

IATA

UN#: 3295
Class: 3
PG: I
Proper Shipping Name: Hydrocarbons, liquid, n.o.s.
Inhalation Packing Group I: No
Technical Name: Required

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: F+-Xn
Extremely Flammable. Harmful.
R-PHRASES: 12-20/22-36/37/38-65
Extremely flammable. Harmful by inhalation and if swallowed.
Irritating to eyes, respiratory system and skin. Harmful: may
cause lung damage if swallowed.
S-PHRASES: 16-26-36/37-62
Keep away from sources of ignition - no smoking. In case of
contact with eyes, rinse immediately with plenty of water and
seek medical advice. Wear suitable protective clothing and
gloves. If swallowed, do not induce vomiting; seek medical
advice immediately and show this container or label.

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 3
Self-Classification

16 - Other Information



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For R&D use only. Not for drug, household or other uses.

WARRANTY:

The above information is believed to be correct but does not purport to be all inclusive and shall be
used only as a guide. The information in this document is based on the present state of our knowledge
and is applicable to the product with regard to appropriate safety precautions. It does not represent
any guarantee of the properties of the product. Lookchem shall not be held liable for any damage
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slip for additional terms and conditions of sale.