

<u>Date of Preparation: 02.19.2020</u> SDS #: 000317T Supersedes: 12.06.2017

## Section 1 – Product and Company Identification

**1.1 GHS Product Identifier** : 3-Methylpentane

Other means of identification : Diethylmethylmethane

Pentane, 3-methyl

Product Number : 315208

**Chemical Formula** : C<sub>6</sub>H<sub>14</sub>

**CAS Number** : 96-14-0

**EC Number** : 202-481-4

**1.2 Recommended use :** Laboratory chemicals, Manufacture of

substances, organic synthesis; solvent, fuel

**1.3 Supplier's detail** : Wiley Companies

1245 South 6th Street Coshocton, Ohio 43812.

(740) 622-0755.

1.4 Emergency Telephone number

International number

: (800) 633-8253. : (801) 629-0667.

#### Section 2 – Hazards Identification

2.1 GHS Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity – single exposure (Category 3)

Aspiration hazard (Category 1)

Acute aquatic toxicity (Category 2)

Chronic aquatic toxicity (Category 2)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger



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Hazard statement(s) H225 H304 H315 H319 H336 H411	Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.
Precautionary statement(s	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
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/vapours/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face
	protection.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P362	Take off contaminated clothing.
P391	Collect spillage.
P301 + P310	IF SWALLOWED: Immediately call a POISON
D000 D004 D050	CENTER/doctor/physician.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing.
D004 : D040	Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for
D205 - D254 - D220	breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
D222   D242	contact lenses if present and easy to do. Continue rinsing  If skin irritation occurs: Get medical advice/ attention.
P332 + P313 P337 + P313	
P370 + P378	If eye irritation persists: Get medical advice/attention.
1370 1 5370	In case of fire: Use dry chemical or alcohol resistant foam for extinction.
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep container lightly closed.
DE01	Dispose of contents/container to approved waste disposal plant

Dispose of contents/container to approved waste disposal plant

## 2.3 Hazards not otherwise classified or not covered by GHS

None

P501

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## **Section 3 - Composition / Information on Ingredients**

#### Substance/Mixture

Chemical name : 3-Methylpentane

Synonyms : Diethylmethylmethane

Pentane, 3-methyl

Formula :  $C_6H_{14}$ 

CAS number : 96-14-0

EC number : 202-481-4

#### **Hazardous components**

Component	Classification	Concentration
3-Methylpentane	Flammable liquids (Category 2) Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity – single exposure (Category 3) Aspiration hazard (Category 1) Acute aquatic toxicity (Category 2) Chronic aquatic toxicity (Category 2)	99%

### **Section 4 - First Aid Measures**

#### 4.1 Description of necessary first aid measures

#### If inhaled

Remove person to fresh air. Consult a physician if necessary.

If breathing is stopped, administer artificial respiration if trained to do so.

#### In case of skin contact

Flush with copious amounts of water for at least 15 minutes. Consult a physician if necessary.

#### In case of eye contact

Flush with copious amounts of water for at least 15 minutes. Consult a physician if necessary.

### If ingested



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Do NOT induce vomiting. Rinse mouth out with water. Never give liquid to an unconscious person. Consult a physician if necessary.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling section 2.2.

4.3 Indication of immediate medical attention and special treatment needed, if necessary No data available.

## Section 5 – Fire Fighting Measure

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray, alcohol resistant foam, carbon dioxide, dry chemical.

#### Unsuitable extinguishing media

None.

#### 5.2 Specific hazards arising from the chemical

No data available.

#### 5.3 Special protective equipment for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH for firefighters (approved or equivalent) and full protective gear.

#### 5.4 Special precautions for fire fighters

Cool vessels and containers with sprayed water. Containers may explode when heated. Vapours can accumulate in low areas. Evacuate all personnel from the danger area. Remove ignition sources if safe to do so. Vapors can be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from product release point.

### Section 6 – Accidental Release Measures

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

Use personal protective equipment. Wear self-contained breathing apparatus when entering area unless atmosphere is proven to be safe. Avoid breathing vapours, mist or gas. Prevent further leakage or spillage if safe to do so. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Evacuate personnel to safe areas. Prevent contamination of soil, drains and surface water. Take up residue with absorbent material and dispose of in accordance with all local, state and federal regulations.



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### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

Prevent entry into waterways, sewers, basements or confined areas.

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

Utilize non-sparking tools. For large spills, dike far ahead of liquid spill for later disposal. Pump up spilled material and transfer to properly labeled containers and dispose of in accordance with all local, state and federal regulations.

Collect with an electrically protected vacuum cleaner

## Section 7 – Handling and Storage

#### 7.1 Precautions for safe handling

Wear all appropriate personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid vapour inhalation. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Ensure good ventilation and local exhaust extraction in work place. Keep away from source of ignition. Use only non-sparking tools. Use only explosion-proof equipment. Take measures to prevent buildup of electrostatic charge. Keep containers tightly closed when not in use

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

Store material in D.O.T. approved containers. Follow all applicable local, state, and federal regulations. Store in a cool, dry, well-ventilated place, in securely closed original container. Store away from oxidizers

## Section 8 – Exposure Controls / Personal Protection

## 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
3-Methylpentane	TWA 500 ppm, USA. ACGIH (TLV)
	STEL 1,000 ppm, USA. ACGIH (TLV)
	TWA 500 ppm, USA. OSHA
	STEL 1,000 ppm, USA. OSHA
	TWA 100 ppm, USA. NIOSH (REL)
	C 510 ppm, USA. NIOSH (REL)

#### 8.2 Appropriate engineering controls

**Engineering Controls:** 

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs.



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#### 8.3 **Individual protection measures**

Administrative Controls:

Handle in accordance with good industrial hygiene and safety practice.

When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure (e.g., an organic vapor cartridge). For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

Wear face shield and safety glasses as approved under appropriate government standards (NIOSH or EN 166). Wear chemically protective gloves. Wear a chemically protective suit. Wear flame retardant protective clothing. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## Section 9 – Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

Appearance : Clear, colourless liquid.

Odour : No data available.

Odour Threshold : No data available.

: No data available. pН

Melting point/freezing

point

: -162.9 °C (-261.2 °F)

Initial boiling point and

boiling point range

: 63.3 °C (145.9 °F)

: -7 °C (19 °F) (Closed cup) Flash point

Evaporation rate : No data available.

Flammability (solid, gas) : No data available.

Or explosive limits

Upper/lower flammability : Lower flammability limit: 1.2% (V)

Upper flammability limit: 7.0% (V)

: 190 mm Hg at 25 °C Vapour pressure

Vapour density : 2.97 (Air=1)

: .664 g/cm<sup>3</sup> at 25 °C Relative density

: 17.9 mg/L at 25 °C Water solubility



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Partition coefficient:

: log Pow: 3.416

n-octanol/water

Auto-ignition Temperature : 278 °C (532 °F)

Decomposition

: No data available.

Temperature

Viscosity : 0.307 cP at 25 °C

Molecular weight : 86.15 g/mol

## Section 10 – Stability and Reactivity

#### 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

This material is stable at room temperature in closed containers under normal storage and handling conditions.

#### 10.3 Possibility of hazardous reactions

Vapours may form explosive mixture in air.

#### 10.4 Conditions to avoid

Avoid contact with strong oxidizing agents. Heat, flames and other sources of ignition. Take measures to prevent buildup of electrostatic charge. Reacts violently with oxidants causing fire and explosion hazard.

#### 10.5 Incompatible materials

Can react vigorously with oxidizing materials.

#### 10.6 Hazardous decomposition products

Thermal oxidative decomposition of this material can produce sulfur oxides

## Section 11 – Toxicological Information

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

No data available.

#### Skin corrosion/irritation

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No data available.

#### Serious eye damage/eye irritation

No data available.

#### Respiratory or skin sensitization

Repeated or prolonged exposure may cause allergic reactions in certain sensitive individuals.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

ARC: No component of this product present at levels greater than or equal to 0.1%

is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1%

is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen by OSHA.

#### Reproductive toxicity

No data available.

### Specific target organ toxicity – single exposure

Mat cause drowsiness or dizziness.

#### Specific target organ toxicity – repeated exposure

No data available.

#### **Aspiration hazard**

The substance or mixture is known to cause human aspiration toxicity hazards

#### Information on the likely routes of exposure

Inhalation, Skin and eye contact, Ingestion

## Symptoms related to the physical, chemical and toxicological characteristics CNS depression, dizziness, irritation,

# Delayed and immediate effects and also chronic effects from short and long-term exposure

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No data available.

#### Numeric measures of toxicity

No data available.

## Section 12 – Ecological Information

## 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

No data available.

#### 12.3 Bioaccumulative potential

No data available.

#### 12.4 Mobility in soil

Slight.

#### 12.5 Other adverse effects

Toxic to aquatic life with long lasting effects.

## Section 13 – Disposal Considerations

#### 13.1 Disposal Methods

Follow all applicable local, state, and federal regulations.

Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 14 – Transport Information

	DOT	IMDG	IATA
UN number	UN1208	UN1208	UN1208
Un proper shipping name	Hexanes	HEXANES, MARINE POLLUTANT	Hexanes
Transport hazard class	3	3	3
Packing group	II	II	II
Marine pollutant	-	Yes	-



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## Section 15 – Regulatory Information

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Fire hazard, Acute health hazard.

## Section 16 - Other Information

	HMIS		
Health - Chronic	*		NFPA
Health Hazard	2	Health Hazard	2
Flammability	3	Fire Hazard	3
Physical	0	Reactivity	0

#### Prepared By:

Wiley Companies
The EH&S Department

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