

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 5/7/2021 Revision date: 5/7/2021 Supersedes: 1/4/2017 Version: 1.0

## **SECTION 1: Identification**

#### 1.1. Identification

Product form : Substance
Trade name : Diisobutyl Carbinol
CAS-No. : 108-82-7

Formula : C9H19OH

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Chemical intermediate

Solvent

## 1.3. Supplier

Monument Chemical 16717 Jacintoport Blvd. Houston, TX 77015 - USA

T (281) 452-5951 - F (281) 457-1127

sds@monumentchemical.com - www.monumentchemical.com

#### 1.4. Emergency telephone number

Emergency number : 24 HR CHEMTREC: 1-800-424-9300 (International +1 703-741-5970); 24 HR Emergency

Assistance: 1-832-376-2026

## **SECTION 2: Hazard(s) identification**

### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Flammable liquids Category 4 H227 Combustible liquid

Full text of H- and EUH-statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Signal word (GHS US) : Warning

Hazard statements (GHS US) : H227 - Combustible liquid

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smokina.

P280 - Wear eye protection, protective clothing, protective gloves.

P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry extinguishing

powder, Water spray to extinguish.

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

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

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## **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Name : Diisobutyl Carbinol

CAS-No. : 108-82-7

Name	Product identifier	%
Diisobutyl Carbinol	CAS-No.: 108-82-7	≥ 70
2-Heptanol, 4,6-dimethyl-	CAS-No.: 51079-52-8	≤ 30
2,6-Dimethyl-4-heptanone	CAS-No.: 108-83-8	≤ 3

Full text of hazard classes, H- and EUH-statements: see section 16

#### 3.2. Mixtures

Not applicable

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice
	(show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe

fresh air. Allow the victim to rest.

First-aid measures after skin contact : Wash skin with plenty of water. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Obtain emergency medical attention.

## 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and : Based on available data, the classification criteria are not met. symptoms

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

#### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid.

Explosion hazard : May form flammable/explosive vapor-air mixture.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

#### **SECTION 6: Accidental release measures**

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

General measures

: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking

#### 6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. No open flames, no sparks, and no smoking. Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.

Emergency procedures

: Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information

: Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

For further information refer to section 13. See Heading 8. Exposure controls and personal protection.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapors are flammable. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Precautions for safe handling

: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking.

Hygiene measures

 Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures

: Proper grounding procedures to avoid static electricity should be followed.

Storage conditions

: Store in a well-ventilated place. Keep cool. Keep only in the original container in a cool, well ventilated place away from : Heat sources, Ignition sources, Incompatible materials. Keep container closed when not in use. Keep in fireproof place.

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Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

## **Diisobutyl Carbinol (108-82-7)**

No additional information available

## **Diisobutyl Carbinol (108-82-7)**

No additional information available

#### 2-Heptanol, 4,6-dimethyl- (51079-52-8)

No additional information available

## 2,6-Dimethyl-4-heptanone (108-83-8)

#### **USA - ACGIH - Occupational Exposure Limits**

Local name		Diisobutyl keto		
ACC	GIH OEL TWA [ppm]	25 ppm		
Rem	nark (ACGIH)	URT & eye irr		
Reg	ulatory reference	ACGIH 2021		

## **USA - OSHA - Occupational Exposure Limits**

Local name	Diisobutyl ketone		
OSHA PEL (TWA) [1]	290 mg/m³		
OSHA PEL (TWA) [2]	50 ppm		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
USA - IDLH - Occupational Exposure Limits			
IDLH [ppm]	500 ppm		

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USA - NIOSH - Occupational Exposure Limits		
NIOSH REL (TWA)	150 mg/m³	
NIOSH REL TWA [ppm]	25 ppm	

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Protective gloves. Wear protective gloves.

#### Eye protection:

Safety glasses. Chemical goggles or safety glasses

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#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate mask

#### Personal protective equipment symbol(s):



#### Other information:

Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless liquid.

Color : Colorless Odor : Sweet

Odor threshold : No data available pH : No data available Melting point : Not applicable Freezing point : -85 °F; (-65°C)

Boiling point :  $352 \, ^{\circ} F$ ; (178 $^{\circ} C$ ) 760mmHg Flash point :  $144 \, ^{\circ} F$ ; (62 $^{\circ} C$ ) Closed cup

Relative evaporation rate (butyl acetate=1) : 0.02

Flammability (solid, gas) : Not applicable.

Vapor pressure : 0.14 mm Hg @20°C

Relative vapor density at 20 °C : 5

 Relative density
 : 0.81 – 0.814 @ 20°C

 Molecular mass
 : 144.26 g/mol

 Solubility
 : Insoluble in water.

 Water: 0.06 %

Partition coefficient n-octanol/water (Log Pow) : 3.09

Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : 15.4 cP @ 20°C Explosion limits : 0.8 – 6.1 vol % Explosive properties : No data available Oxidizing properties : No data available

## 9.2. Other information

Refractive index : 1.41 – 1.43 @ 20°C

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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#### 10.2. Chemical stability

Stable under normal conditions. Combustible liquid. May form flammable/explosive vapor-air mixture.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

## 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Sparks.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Diisobutyl Carbinol (108-82-7)		
LD50 oral rat	3560 mg/kg	
LD50 dermal rabbit	4591 mg/kg	
ATE US (oral)	3560 mg/kg body weight	
ATE US (dermal)	4591 mg/kg body weight	

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2,6-Dimethyl-4-heptanone (108-83-8)					
LD50 oral rat	5750 mg/kg				
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)				
LC50 Inhalation - Rat	> 14.5 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Experimental value, Inhalation (vapours), 14 day(s))				
LC50 Inhalation - Rat [ppm]	> 2300 ppm/4h				
ATE US (oral)	5750 mg/kg body weight				

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

2,6-Dimethyl-4-heptanone (108-83-8)		
STOT-single exposure	May cause respiratory irritation.	

STOT-repeated exposure : Not classified

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2,6-Dimethyl-4-heptanone (108-83-8)	
NOAEL (oral,rat,90 days)	2000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEC (inhalation,rat,vapor,90 days)	5.74 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

## **SECTION 12: Ecological information**

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Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

2,6-Dimethyl-4-heptanone (108-83-8)				
LC50 - Fish [1]	140 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])			
EC50 - Crustacea [1]	37.2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semistatic system, Fresh water, Experimental value, GLP)			
ErC50 algae	46.9 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)			

## 12.2. Persistence and degradability

Diisobutyl Carbinol (108-82-7)		
Persistence and degradability	Not established.	
Diisobutyl Carbinol (108-82-7)		
Persistence and degradability	Biodegradability in water: no data available.	
2,6-Dimethyl-4-heptanone (108-83-8)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	

## 12.3. Bioaccumulative potential

Diisobutyl Carbinol (108-82-7)		
Partition coefficient n-octanol/water (Log Pow)	3.09	
Bioaccumulative potential	Not established.	
Diisobutyl Carbinol (108-82-7)		
Partition coefficient n-octanol/water (Log Pow)	2.99 (QSAR)	
Bioaccumulative potential	Not bioaccumulative.	
2,6-Dimethyl-4-heptanone (108-83-8)		
BCF - Fish [1]	100 (Pisces)	
BCF - Other aquatic organisms [1]	130 l/kg (BCFBAF v3.00, QSAR)	
Partition coefficient n-octanol/water (Log Pow)	3.71 (Experimental value, 25 °C)	

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2,6-Dimethyl-4-heptanone (108-83-8)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

### 12.4. Mobility in soil

2,6-Dimethyl-4-heptanone (108-83-8)	
Surface tension	22.8 N/m (25 °C, 100 vol %)
Partition coefficient n-octanol/water (Log Koc)	2.07 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Low potential for adsorption in soil.

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to hazardous or special waste collection point, in accordance with local,

regional, national and/or international regulation.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

## **SECTION 14: Transport information**

In accordance with Department of Transport / IMDG / IATA

## 14.1. UN number

DOT NA No : NA1993
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Combustible liquid, n.o.s. (Diisobutyl Carbinol)

Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

Transport document description (DOT) : NA1993 Combustible liquid, n.o.s. (Diisobutyl Carbinol), 3, III

## 14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 3

**IMDG** 

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

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#### 14.4. Packing group

Packing group (DOT) : 111

: Not applicable Packing group (IMDG) Packing group (IATA) : Not applicable

## 14.5. Environmental hazards

Other information : No supplementary information available

## 14.6. Special precautions for user

#### DOT

UN-No.(DOT) : NA1993

DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table

2 for UN2672)

T1 - 1.5 178.274(d)(2) Normal...... 178.275(d)(2) T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature

during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) 150 DOT Packaging Non Bulk (49 CFR 173.xxx) 203 DOT Packaging Bulk (49 CFR 173.xxx) 241 DOT Quantity Limitations Passenger aircraft/rail (49 : 60 L

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

: 220 L

**DOT Vessel Stowage Location** : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

#### **IMDG**

No data available

#### ΙΔΤΔ

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

CAS-No. 51079-52-8 ≤ 30% 2-Heptanol, 4,6-dimethyl-

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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#### 15.2. International regulations

#### **CANADA**

#### **Diisobutyl Carbinol (108-82-7)**

Listed on the Canadian DSL (Domestic Substances List)

## 2,6-Dimethyl-4-heptanone (108-83-8)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

#### **Diisobutyl Carbinol (108-82-7)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 2,6-Dimethyl-4-heptanone (108-83-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

#### **Diisobutyl Carbinol (108-82-7)**

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (National Chemicals Inventory)

#### 2-Heptanol, 4,6-dimethyl- (51079-52-8)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (National Chemicals Inventory)

#### 2,6-Dimethyl-4-heptanone (108-83-8)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (National Chemicals Inventory)

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#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
2,6-Dimethyl-4-heptanone(108-83-8)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List; U.S Massachusetts - Right To Know List

## **SECTION 16: Other information**

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Revision date : 05/07/2021 Other information : None.

Full text of H-phra	ases
H227	Combustible liquid

Safety Data Sheet (SDS), USA

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