

# SAFETY DATA SHEET

Revision Date 24-Dec-2021

**Revision Number** 4

## 1. Identification

## **Product Name**

## 2,4-Dimethyl-1,3-pentadiene

## Cat No. :

AC155360000; AC155360050; AC155360250; AC155361000

CAS No Synonyms 1000-86-8 2,4-Dimethylpenta-1,3-diene

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

## **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 2 Category 3

### Label Elements

Signal Word Danger

Hazard Statements Highly flammable liquid and vapor Causes skin irritation Causes serious eye irritation May cause respiratory irritation



## Precautionary Statements

## Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin If skin irritation occurs: Get medical advice/attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, Continue rinsing If eve irritation persists: Get medical advice/attention Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store in a well-ventilated place. Keep container tightly closed Store locked up Disposal Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component	CAS No V	weight %
2,4-Dimethylpenta-1,3-diene 1	000-86-8	98

## 4. First-aid measures

Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention. Take off contaminated clothing and shoes immediately.

Inhalation	Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician immediately. If possible drink milk afterwards.
Most important symptoms and effects Notes to Physician	Difficulty in breathing Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting Treat symptomatically

5. Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media	No information available
Flash Point	10 °C / 50 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

### **Specific Hazards Arising from the Chemical**

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

#### **Hazardous Combustion Products**

Thermal decomposition can lead to release of irritating gases and vapors.

#### **Protective Equipment and Precautions for Firefighters**

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

NFPA Health 2	Flammability 3	Instability 0	Physical hazards N/A
	6. Accidental re	elease measures	
Personal PrecautionsRemove all sources of ignition. Take precautionary measures against static discharEnvironmental PrecautionsSee Section 12 for additional Ecological Information.		ures against static discharges.	
Methods for Containment and Clean Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Sweep up and shovel into suitable containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.			
	7. Handling	and storage	
Handling	Keep away from heat/spa	irks/open flames/hot surfaces I	No smoking. Empty containers

andling	Keep away from heat/sparks/open flames/hot surfaces No smoking. Empty containers retain product residue, (liguid and/or vapor), and can be dangerous. Keep away from open
	flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage.	Flammables area. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame. Incompatible Materials. Oxidizing agent.	
8. E:	xposure controls / personal protection	
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.	
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ventilation systems. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties		
Physical State	Liquid	
Appearance	Light yellow	
Odor	Odorless	
Odor Threshold	No information available	
рН	No information available	
Melting Point/Range	No data available	
Boiling Point/Range	94 °C / 201.2 °F @ 760 mmHg	
Flash Point	10 °C / 50 °F	
Evaporation Rate	No information available	
Flammability (solid,gas)	Not applicable	
Flammability or explosive limits		
Upper	No data available	
Lower	No data available	
Vapor Pressure	67 mmHg @ 37.7 °C	
Vapor Density	3.32	
Specific Gravity	0.740	
Solubility	No information available	
Partition coefficient; n-octanol/water	No data available	
Autoignition Temperature	No information available	
Decomposition Temperature	No information available	
Viscosity	No information available	
Molecular Formula	C7 H12	
Molecular Weight	96.17	

## 10. Stability and reactivity

**Reactive Hazard** 

None known, based on information available

Stability

Stable under normal conditions.

Conditions to Avoid	Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.	
Incompatible Materials	Oxidizing agent	
Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors		
Hazardous Polymerization	No information available.	
Hazardous Reactions	None under normal processing.	
	11. Toxicological information	
Acute Toxicity		
Product Information Component Information	No acute toxicity information is available for this product	
Toxicologically Synergistic Products	No information available	
Delayed and immediate effects as well as chronic effects from short and long-term exposure		
Irritation	No information available	
Sensitization	No information available	
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.	

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
2,4-Dimethylpenta-1,3- diene	1000-86-8	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effect	S	No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expos STOT - repeated exp		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	<b>d</b> Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting			he, dizziness,	
Endocrine Disrupto	r Information	No information available				
Other Adverse Effec	cts	The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity Do not empty into drains.

Persistence and Degradability	No information available
Bioaccumulation/ Accumulation Mobility	No information available. No information available.

13. Disposal considerations

#### Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	
UN-No	UN1993
Hazard Class	3
Packing Group	II
TDG	
UN-No	UN1993
Hazard Class	3
Packing Group	II
IATA	
UN-No	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.*
Hazard Class	3
Packing Group	II
IMDG/IMO	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	II
	15. Regulatory information

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
2,4-Dimethylpenta-1,3-diene	1000-86-8	-	-	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
2,4-Dimethylpenta-1,3-diene	1000-86-8	-	-	213-677-4	-	-	Х	-	-	KE-11730

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
2,4-Dimethylpenta-1,3-diene	1000-86-8	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
2,4-Dimethylpenta-1,3-diene	1000-86-8	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**