

SAFETY DATA SHEET

Creation Date 23-Mar-2012

Revision Date 26-Jan-2018

Revision Number 4

1. Identification

2-Methyl-1-pentene

Cat No. :

Product Name

CAS-No Synonyms 763-29-1 1-Pentene, 2-methyl-; 2-Methyl-pentene-1; 2-Methylpent-1-ene

AC127400000; AC127400100; AC127400500

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company Fisher Scientific 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	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system, Central nervous sy	/stem (CNS).
Aspiration Toxicity	Category 1

Label Elements

Signal Word Danger

Hazard Statements

Highly flammable liquid and vapor May be fatal if swallowed and enters airways May cause drowsiness or dizziness



Precautionary Statements Prevention

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 Wear protective gloves/protective clothing/eye protection/face protection 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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Store in a well-ventilated place. Keep container tightly closed 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	Weight %				
2-Methyl-1-	pentene	763-29-1	>95				
	4. F	irst-aid measures					
General Advice If symptoms persist, call a physician.							
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.						
Skin Contact		Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.					
nhalation		Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. Risk of serious damage to the lungs.					
ngestion	Clean mouth w	ith water and drink afterwards plenty	of water. Do not induce vomiting. Call a				

	physician or Poison Control Center immediately. If vomiting occurs naturally, have victim lean forward.
Most important symptoms and effects Notes to Physician	None reasonably foreseeable. 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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.
Unsuitable Extinguishing Media	No information available
Flash Point	-26 °C / -14.8 °F
Method -	No information available
Autoignition Temperature	299 °C / 570.2 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	

Specific Hazards Arising from the Chemical

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

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors Carbon monoxide (CO) Carbon dioxide (CO₂) **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	
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Health 3	Flammability 3	Instability 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions		n. Use personal protective equ measures against static disc	uipment. Remove all sources of harges.
Environmental Precaution			Ū
Methods for Containment	and Clean Keep in suitable, closed co	ntainers for disposal. Soak up	with inert absorbent material.

 Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

 Up
 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

	7. Handling and storage
Handling	Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. 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	Keep in a dry place. Keep container tightly closed. Keep away from heat and sources of ignition. Keep away from heat/sparks/open flames/hot surfaces No smoking. To maintain product quality. Keep refrigerated.

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	Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
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	Long sleeved clothing.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-136 °C / -212.8 °F
Boiling Point/Range	62 °C / 143.6 °F @ 760 mmHg
Flash Point	-26 °C / -14.8 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	1.20%
Vapor Pressure	325 mmHg @ 37.7 °C
Vapor Density	2.90
Specific Gravity	0.680
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	299 °C / 570.2 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C6 H12
Molecular Weight	84.15

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under recommended storage conditions.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.
Incompatible Materials	Acids, Strong oxidizing agents

Hazardous Decomp	osition Pro	ducts	s Thermal decompo monoxide (CO), C			gases and vapors,	Carbon		
Hazardous Polymer	ization		Hazardous polymerization does not occur.						
Hazardous Reaction	าร		None under norma	al processing.					
			11. Toxico	ological info	ormation				
Acute Toxicity				9.001					
Product Information Component Informa									
Componen			LD50 Oral		LD50 Dermal	LC50	Inhalation		
2-Methyl-1-pen	itene		Not listed		Not listed	LC50 = 115	g/m³ (Rat)4 h		
Toxicologically Syn Products			No information ava]		
Delayed and immed	liate effects	as w	ell as chronic effe	ects from short ar	nd long-term expo	osure			
Irritation			No information ava	ailable					
Sensitization			No information ava	ailable					
Carcinogenicity			The table below in	ndicates whether e	ach agency has lis	ted any ingredient	as a carcinogen.		
Component	CAS-N	0	IARC	NTP	ACGIH	OSHA	Mexico		
2-Methyl-1-pentene	763-29-	-1	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects			No information ava	ailable					
Reproductive Effect	s		No information ava	ailable.					
Developmental Effe	cts		No information ava	ailable.					
Teratogenicity			No information ava	ailable.					
STOT - single expos STOT - repeated exp			Respiratory syster None known	m Central nervous	system (CNS)				
Aspiration hazard			Category 1						
Symptoms / effects delayed	Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, delayed						he, dizziness,		
Endocrine Disrupto	r Informatio	on	No information ava	ailable					
Other Adverse Effect	cts		The toxicological p	properties have no	t been fully investig	gated.			
			12. Ecol	ogical infor	mation				
Ecotoxicity Do not empty into dra	ains.								
Persistence and De	gradability		Persistence is unli	ikely based on info	rmation available.				
Bioaccumulation/ A	ccumulatio	n	No information ava	ailable.					
Mobility			Will likely be mobi	le in the environme	ent due to its volati	lity.			
			13. Dispo	sal conside	erations				

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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	UN3295
Proper Shipping Name	HYDROCARBONS, LIQUID, N.O.S.
Hazard Class	3
Packing Group	II
TDG	
UN-No	UN3295
Proper Shipping Name	HYDROCARBONS, LIQUID, N.O.S.
Hazard Class	3
Packing Group	II
IATA	
UN-No	UN3295
Proper Shipping Name	HYDROCARBONS, LIQUID, N.O.S.
Hazard Class	3
Packing Group	II
IMDG/IMO	
UN-No	UN3295
Proper Shipping Name	HYDROCARBONS, LIQUID, N.O.S.
Hazard Class	3
Packing Group	
	15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
2-Methyl-1-pentene	Х	-	Х	212-108-7	-		-	Х	Х	-	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
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

OSHA 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

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
2-Methyl-1-pentene	Х	-	Х	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade	No information available			
16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	23-Mar-2012 26-Jan-2018 26-Jan-2018 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