

SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 14-Feb-2020

Revision Number 2

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Product Name	2-Methylpentane

Cat No.		.03001
Cat NO.	L	.03001

CAS-No Synonyms

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

107-83-5

Isohexane

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

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	
Skin Corrosion/Irritation	Category 2	
Serious Eye Damage/Eye Irritation	Category 2	
Specific target organ toxicity (single exposure)	Category 3	
Target Organs - Central nervous system (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 Causes skin irritation Causes serious eye irritation May cause drowsiness or dizziness



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

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

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)

Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS-No	Weight %	
2-Methylpentane	107-83-5	> 99	

4. First-aid measures

General Advice

If symptoms persist, call a physician.

	5 Fire-fighting measures
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
Ingestion	Clean mouth with 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.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. Risk of serious damage to the lungs (by aspiration).
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media	Water may be ineffective

Flash Point	-23 °C / -9.4 °F
Method -	No information available

Autoignition Temperature	265 °C / 509 °F

Explosion Limits	
Upper	7.40 vol %
Lower	1.00 vol %
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Vapors may form explosive mixtures with air.

Hazardous Combustion Products

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.

<u>NFPA</u> Health 3	Flammability 3	Instability 0	Physical hazards N/A	
	6. Accidental re	elease measures		
Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Remove al sources of ignition. Take precautionary measures against static discharges.				
Environmental Precautions Do not flush into surface water or sanitary sewer system.				
Methods for Containment and Clea Up	Remove all sources of igi	ent material. Keep in suitable, clo nition. Take precautionary measu d explosion-proof equipment.		

7. Handling and storage

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Storage

Handling

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
2-Methylpentane	TWA: 500 ppm			TWA: 500 ppm
	STEL: 1000 ppm			STEL: 1000 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering MeasuresEnsure adequate ventilation, especially in confined areas. Use explosion-proof
electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers
are close to the workstation location.Personal Protective EquipmentWear 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 protectionWear appropriate protective gloves and clothing to prevent skin exposure.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9.	Phy	/sical	and	chemical	pro	perties

Physical State	Liquid	
Appearance	Colorless	
Odor	Petroleum distillates	
Odor Threshold	No information available	
pH	No information available	
Melting Point/Range	-154 °C / -245.2 °F	
Boiling Point/Range	60 °C / 140 °F @ 760 mmHg	
Flash Point	-23 °C / -9.4 °F	
Evaporation Rate	No information available	
Flammability (solid,gas)	Not applicable	
Flammability or explosive limits		
Upper	7.40 vol %	
Lower	1.00 vol %	
Vapor Pressure	180 mmHg @ 21 °C	
Vapor Density	2.97	
Specific Gravity	0.660	

Solubility Partition coefficient; n-octanol/wate Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight	r No data available 265 °C / 509 °F No information available No information available C6 H14 86.18			
	10. Stability and reactivity			
Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.			
Incompatible Materials	trong oxidizing agents			
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO2)			
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			
	11. Toxicological information			
Acute Toxicity				
Product Information	No acute toxicity information is available for this product			

Product Information	No acute toxicity information is available for this product				
Component Information					
Toxicologically Synergistic	No information available				
Products					
Delayed and immediate effects as well as chronic effects from short and long-term exposure_					
Irritation	Irritating to eyes and skin				
Sensitization	No information available				

Sensitization	No information a

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico		
2-Methylpentane	107-83-5	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ailable					
Reproductive Effects		No information available.						
Developmental Effe	cts	No information available.						
Teratogenicity		No information available.						
STOT - single exposure STOT - repeated exposure		Central nervous system (CNS) None known						
Aspiration hazard		Category 1						
Symptoms / effects,both acute and delayed		Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting						
Endocrine Disruptor Information		No information available						
Other Adverse Effects		The toxicological properties have not been fully investigated.						

12. Ecological information					
Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.					
Persistence and Degradability Persistence is unlikely based on information available.					
Bioaccumulation/ Accumulation	No information available.				
Mobility Will likely be mobile in the environment due to its volatility.					
13. Disposal considerations					
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified 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	UN1208				
Proper Shipping Name	HEXANES				
Hazard Class 3					
Packing Group					
UN-No UN1208					
Proper Shipping Name	HEXANES				
Hazard Class	3 II				
Packing Group	11				

IATA	
UN-No	UN1208
Proper Shipping Name	HEXANES
Hazard Class	3
Packing Group	II
IMDG/IMO	
UN-No	UN1208
Proper Shipping Name	HEXANES
Hazard Class	3
Packing Group	II
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Regulatory information 15.

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
2-Methylpentane	107-83-5	Х	ACTIVE	-

Legend:

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), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
2-Methylpentane	107-83-5	Х	-	203-523-4	Х	Х	Х	Х	KE-24699

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
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-Methylpentane	Х	Х	Х	-	-

U.S. Department of Transportation 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			

	16. Other information	
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com	
Creation Date	22-Sep-2009	
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Print Date	14-Feb-2020	
Revision Summary	evision Summary SDS authoring systems update, replaces ChemGes SDS No. 107-83-5/2.	

Disclaimer

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End of SDS