

SAFETY DATA SHEET

Revision Date 18-Feb-2020

Revision Number 2

1. Identification

Product Name	Isododecane		
Cat No. :	A14235		
CAS No	31807-55-3		
Synonyms	Pentamethylheptane		
Recommended Use	Laboratory chemicals.		
Uses advised against	Food, drug, pesticide or biocidal product use.		

Details of the supplier of the safety data sheet

Company

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 3	
Aspiration Toxicity	Category 1	

Label Elements

Signal Word Danger

Hazard Statements

Flammable liquid and vapor May be fatal if swallowed and enters airways



Precautionary Statements Prevention

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 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 cool

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 %
Isododecane	31807-55-3	<=100

4. First-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.
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).
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.

Notes to Physician	Treat symptomatically		
	5. Fire-fighting	measures	
Suitable Extinguishing Media	Carbon dioxide (CO 2). Powde Evacuate area. Fight fire remo cool closed containers.		najor fire and large quantities: osion. Water mist may be used to
Insuitable Extinguishing Media	No information available		
Flash Point	42 °C / 107.6 °F		
Method -	No information available		
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No data available No data available No information available No information available		
Specific Hazards Arising from the C lammable. Containers may explode w gnition and flash back.		explosive mixtures with air	. Vapors may travel to source of
Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxid Protective Equipment and Precautio			
As in any fire, wear self-contained brea		and, MSHA/NIOSH (appro	ved or equivalent) and full
s in any fire, wear self-contained brea rotective gear.		and, MSHA/NIOSH (appro Instability 0	ved or equivalent) and full Physical hazards
As in any fire, wear self-contained brea protective gear. <u>NFPA</u> Health	athing apparatus pressure-dem Flammability	Instability 0	
As in any fire, wear self-contained bread protective gear. NFPA Health 3 Personal Precautions	Flammability 2 6. Accidental relea	Instability 0 ASE MEASURES Use personal protective equationary measures agains	Physical hazards
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As in any fire, wear self-contained bread protective gear. NFPA Health 3 Personal Precautions Environmental Precautions Methods for Containment and Clean Jp	Flammability 2 6. Accidental relea Ensure adequate ventilation. U sources of ignition. Take preca Should not be released into th Information. Soak up with inert absorbent r Remove all sources of ignition 7. Handling an	Instability 0 ase measures Jse personal protective equationary measures agains e environment. See Section naterial. Keep in suitable, of . Use spark-proof tools and d storage	Physical hazards
As in any fire, wear self-contained brea protective gear. NFPA Health 3 Personal Precautions Environmental Precautions Methods for Containment and Clean	Flammability 2 6. Accidental relea Ensure adequate ventilation. Usources of ignition. Take preca Should not be released into the Information. Soak up with inert absorbent r Remove all sources of ignition 7. Handling an Wear personal protective equi	Instability 0 ASE MEASURES Jse personal protective equationary measures agains e environment. See Section naterial. Keep in suitable, of . Use spark-proof tools and d storage pment/face protection. Ensibility hing. Avoid ingestion and it ces of ignition. Use only no	Physical hazards upment as required. Remove all t static discharges. In 12 for additional Ecological closed containers for disposal. d explosion-proof equipment.
As in any fire, wear self-contained bread protective gear. NFPA Health 3 Personal Precautions Environmental Precautions Methods for Containment and Clean Jp	Flammability 2 6. Accidental relea Ensure adequate ventilation. Usources of ignition. Take preca Should not be released into the Information. Soak up with inert absorbent r Remove all sources of ignition 7. Handling an Wear personal protective equi get in eyes, on skin, or on clot flames, hot surfaces and source	Instability 0 ASE MEASURES Jse personal protective equationary measures agains e environment. See Section naterial. Keep in suitable, of . Use spark-proof tools and d storage pment/face protection. Ensibility hing. Avoid ingestion and its ces of ignition. Use only no list static discharges. n a dry and well-ventilated	Physical hazards upment as required. Remove all t static discharges. In 12 for additional Ecological closed containers for disposal. d explosion-proof equipment. ure adequate ventilation. Do not halation. Keep away from open n-sparking tools. Take place. Keep away from heat,
As in any fire, wear self-contained bread brotective gear. NFPA Health 3 Personal Precautions Environmental Precautions Methods for Containment and Clean Jp Handling Storage.	Flammability 2 6. Accidental relea Ensure adequate ventilation. Usources of ignition. Take preca Should not be released into the Information. Soak up with inert absorbent r Remove all sources of ignition 7. Handling an Wear personal protective equi get in eyes, on skin, or on clot flames, hot surfaces and source precautionary measures again Keep container tightly closed i	Instability 0 ASE MEASURES Jse personal protective equationary measures agains e environment. See Section naterial. Keep in suitable, of . Use spark-proof tools and d storage pment/face protection. Ensiting. Avoid ingestion and in the so of ignition. Use only no list static discharges. In a dry and well-ventilated le Materials. Oxidizing age	Physical hazards upment as required. Remove all t static discharges. In 12 for additional Ecological closed containers for disposal. d explosion-proof equipment. ure adequate ventilation. Do not inhalation. Keep away from open n-sparking tools. Take place. Keep away from heat, ent.

Engineering Measures	Ensure adequate ventilation, especially in confined areas. 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.
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.
Recommended Filter type:	Multi-purpose/ABEK. conforming to EN14387.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	170 - 195 °C / 338 - 383 °F
Flash Point	42 °C / 107.6 °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	No information available
Vapor Density	No information available
Specific Gravity	0.74 g/cm3
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	C12 H26
Molecular Weight	170.34

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 Materials	Oxidizing agent
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 Component Informa Toxicologically Syn Products Delayed and immed	ition ergistic	No information available well as chronic effects from short and long-term exposure				
Irritation		No information available				
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has lis	ted any ingredient	as a carcinogen.
						-
Component Isododecane	CAS No 31807-55-3	IARC Not listed	NTP Not listed	ACGIH Not listed	OSHA Not listed	Mexico Not listed
Mutagenic Effects	51007-55-5	No information ava		Not listed	Not listed	Not listed
Reproductive Effect	S	No information ava	ailable.			
Developmental Effe		No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard	spiration hazard No information available					
Symptoms / effects delayed	,both acute and	nd Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting				
Endocrine Disrupto	r Information	No information ava	ailable			
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.				
12. Ecological information						
Ecotoxicity						
Persistence and Deg	Persistence and Degradability No information available					
Bioaccumulation/ A	ccumulation	No information ava	ailable.			
Mobility		No information available.				
		13 Dispo	sal conside	rations		
Waste Disposal Met	Ste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			gional, and		
		14. Trar	nsport inform	mation		
DOTUN2286						

Proper Shipping Name Hazard Class Packing Group TDG	PENTAMETHYLHEPTANE 3 III
UN-No	UN2286
Proper Shipping Name	PENTAMETHYLHEPTANE
Hazard Class	3
Packing Group	III
<u>IATA</u>	
UN-No	UN2286
Proper Shipping Name	PENTAMETHYLHEPTANE
Hazard Class	3
Packing Group	III
IMDG/IMO	
UN-No	UN2286
Proper Shipping Name	PENTAMETHYLHEPTANE
Hazard Class	3
Packing Group	III
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Isododecane	31807-55-3	Х	ACTIVE	-

Legend:

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

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

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
Isododecane	31807-55-3	Х	-	250-816-8	Х	Х	Х	Х	Х	KE-21511

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
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

Isododecane

Substances of Very High Concern (SVHC)

California Proposition 65 U.S. State Right-to-Know Regulations	This product does not contain any Proposition 65 chemicals. Not applicable				
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant U.S. Department of Homeland Security	N N N This product does	s not contain any DHS ch	emicals.		
Other International Regulations					
Mexico - Grade	No information av	ailable			
Authorisation/Restrictions according to EU REACH Not applicable					
Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous	REACH Regulation (EC 1907/2006) article 59 - Candidate List of	

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

31807-55-3

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Isododecane	31807-55-3	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)
Isododecane	31807-55-3	Not applicable	Not applicable	Not applicable	Not applicable

Substances

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Revision Date Print Date Revision Summary	18-Feb-2020 18-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 31807-55-3.

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