

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

Product Name

trans,trans-2,4-Decadienal

Cat No. :

CAS No Synonyms

25152-84-5 (2E,4E)-2,4-Decadienal.

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

AC177510000; AC177510010; AC177510050; AC177510250

2. Hazard(s) identification

Classification

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

Flammable liquids	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

Label Elements

Signal Word Warning

Hazard Statements

Combustible liquid Causes skin irritation Causes serious eye irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash 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

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

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 %
2,4-Decadienal, (E,E)	-	25152-84-5	95
	4.	First-aid measures	
Eye Contact	Rinse immec medical atter	liately with plenty of water, also under th ttion.	e eyelids, for at least 15 minutes. Get
Skin ContactWash off immediately with soap and plenty of water while removing all contamir clothes and shoes.			
Inhalation Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxy If not breathing, give artificial respiration.			
Ingestion	Clean mouth	with water. Get medical attention.	
Most important symptoms and effects Notes to Physician	Difficulty in b nausea and v Treat sympto	-	may be headache, dizziness, tiredness,
	5. Fi	re-fighting measures	

Suitable Extinguishing Media Water spray. Carbon dioxide (CO 2). Dry chemical. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media	No information available
Flash Point	85 °C / 185 °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

Combustible material. Containers may explode when heated.

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	Flammability	Instability	Physical hazards						
	2	1	0	N/A						
		6. Accidental rele	ease measures							
	Precautions ental Precautions	Remove all sources of ignition See Section 12 for additionation	on. Take precautionary measure I Ecological Information.	res against static discharges.						
Methods f Up	Methods for Containment and Clean Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, Up sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition.									
		7. Handling a	nd storage							
Handling		Avoid contact with skin and of flames, hot surfaces and sou		ors/spray. Keep away from open						
Storage.	Storage.Keep in a dry place. Keep container tightly closed. Keep away from heat, sparks and flame Keep refrigerated. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong bases. Reducing Agent.									
	8. E	Exposure controls /	personal protectio	n						
<u>Exposure</u>	<u>Guidelines</u>		n any hazardous materials wit on specific regulatory bodies.	h occupational exposure						
Engineeri	ng Measures		s and safety showers are close especially in confined areas.	e to the workstation location.						
Personal	Protective Equipment									
Eye/fa	ce Protection		eyeglasses or chemical safety tion regulations in 29 CFR 191							
Skin a	nd body protection	Wear appropriate protective	gloves and clothing to prevent	skin exposure.						

Respiratory Protection

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	Yellow
Odor	fatty odor
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	114 - 116 °C / 237.2 - 240.8 °F @ 10 mmHg
Flash Point	85 °C / 185 °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	5.24
Specific Gravity	0.850
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	C10 H16 O
Molecular Weight	152.24

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	Strong oxidizing agents, Strong bases, Reducing Agent
Hazardous Decomposition Product	ts Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

No acute toxicity information is available for this product

Component Information	-	•	
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,4-Decadienal, (E,E)-	LD50 > 5 g/kg (Rat)	LD50 1.25 - 2.5 g/kg (Rabbit)	Not listed
avia a la gia allu Supargiatia	No information available		

Toxicologically Synergistic No information available Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

No information available

Sensitization

Carcinogenicity

No information available

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
2,4-Decadienal, (E,E)-	25152-84-5	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava				
Reproductive Effect	ts	No information available.				
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expos STOT - repeated ex		None known None known				
Aspiration hazard		No information ava	ailable			
Symptoms / effects delayed	s,both acute and	Symptoms of over	exposure may be l	neadache, dizzines	ss, tiredness, nause	ea and vomiting
Endocrine Disrupto	r Information	No information ava	ailable			
Other Adverse Effe	cts	The toxicological p	properties have not	been fully investig	gated.	
		12. Ecol	ogical infor	mation		
Ecotoxicity Do not empty into dra	ains.					
Persistence and De	gradability	Insoluble in water Persistence is unlikely based on information available.				
Bioaccumulation/ A	ccumulation	No information available.				
Mobility		Is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its volatility.				
		13. Dispo	sal conside	erations		
Waste Disposal Met	thods	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.				
		14. Trar	nsport inform	nation		
DOT		COMBUSTIBLE L According to 49 C	IQUID, NOT REGU	JLATED FOR TR this material shou	ANSPORT IN THIS	
UN-No Proper Shipping Packing Group <u>TDG</u> IATA IMDG/IMO	g Name	NA1993 Combustible liquid III Not regulated Not regulated Not regulated	l, n.o.s.			
		15. Regu	latory infor	mation		
United States of An	nerica Inventory					

Component CAS No TSCA TSCA Inventory notification - TSCA - EPA Regulatory

			Active-Inactive	Flags
2,4-Decadienal, (E,E)-	25152-84-5	Х	ACTIVE	-

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-Decadienal, (E,E)-	25152-84-5	Х	-	246-668-9	Х	-		Х	Х	-

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
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
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
Authorisation/Restrictions accordin	ng 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
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					Substances (RoHS)
2,4-Decadienal, (E,E)-	25152-84-5	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-Decadienal, (E,E)-	25152-84-5	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

	Regulatory Affairs
-	Thermo Fisher Scientific
I	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

Prepared By

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End of SDS