

SAFETY DATA SHEET

Revision Date 26-May-2017

Revision Number 2

1. IdentificationProduct Nametrans-2-Decenal

Cat No. : AC298190000; AC298190250

Synonyms

beta-n-Heptylacrolein; 3-Heptylacrolein

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)

Skin Corrosion/irritation
Serious Eye Damage/Eye Irritation

Category 2 Category 2

Label Elements

Signal Word Warning

Hazard Statements

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

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

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life

3. Composition / information on ingredients

Component	CAS-No	Weight %
2-Decenal, (E)-	3913-81-3	>95

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. Obtain medical attention.						
Skin Contact	Obtain medical attention. Wash off immediately with plenty of water for at least 15 minutes.						
Inhalation	Move to fresh air. Obtain medical attention. If breathing is difficult, give oxygen.						
Ingestion	Clean mouth with water and drink afterwards plenty of water.						
Most important symptoms/effects Notes to Physician	None reasonably foreseeable. Treat symptomatically						
5. Fire-fighting measures							
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.						
Unsuitable Extinguishing Media	No information available						
Flash Point	96 °C / 204.8 °F						
Method -	No information available						
Autoignition Temperature	No information available						
Explosion Limits Upper	No data available						
Lower	No data available						
Sensitivity to Mechanical Impact							
Sensitivity to Static Discharge	No information available						

Specific Hazards Arising from the Chemical

Flammable. Do not allow run-off from fire fighting to enter drains or water courses.

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 2	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions Environmental Precautions		uipment. Ensure adequate vent ater or sanitary sewer system. D	

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

should be advised if significant spillages cannot be contained.

contaminate ground water system. Prevent product from entering drains. Local authorities

	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.
Storage	Keep refrigerated. Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place.
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. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Tightly fitting safety goggles. Face-shield.
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

7.111931	car and chemical properties
Physical State	Liquid
Appearance	Clear
Odor	Orange
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	78 - 80 °C / 172.4 - 176 °F @ 3 mmHg
Flash Point	96 °C / 204.8 °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	0.0508
Vapor Density	5.31

Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

0.840 No information available No data available No information available No information available C10 H18 O 154.25

10. Stability and reactivity

Reactive Hazard	None known, based on information available				
Stability	No information available.				
Conditions to Avoid	Incompatible products. Excess heat.				
Incompatible Materials	Strong oxidizing agents, Strong bases				
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂)				
Hazardous Polymerization	Hazardous polymerization does not occur.				
Hazardous Reactions	None under normal processing.				

11. Toxicological information

Acute Toxicity

Acute Toxicity								
Product Information Component Information	-	No acute toxicity information is available for this product						
Toxicologically Syn Products		No information available						
Delayed and immed	liate effects as w	ell as chronic effe	cts from short ar	d long-term expo	sure_			
Irritation		No information ava	ailable					
Sensitization		No information ava	ailable					
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ted any ingredient	as a carcinogen.		
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico		
2-Decenal, (E)-	3913-81-3	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ailable					
Reproductive Effec	ts	No information available.						
Developmental Effe	ects	No information ava	ailable.					
Teratogenicity		No information ava	ailable.					
STOT - single expo STOT - repeated ex		None known None known						
Aspiration hazard		No information ava	ailable					
Symptoms / effects delayed	s,both acute and	No information ava	ailable					
Endocrine Disrupto	r Information	No information ava	ailable					

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea				
2-Decenal, (E)-	Not listed	LC50: 0.116 mg/l/96 H	Not listed	Not listed				
		(Fathead minnow)						
Persistence and Degrada	ability Persistence	is unlikely based on informati	on available.					
Bioaccumulation/ Accum	No informati	on available.						
Mobility	Will likely be	mobile in the environment du	ue to its volatility.					
	Component		log Pow					
	2-Decenal, (E)-		3.55					
	13. Disposal considerations							
Waste Disposal Methods		aste generators must determin vaste. Chemical waste gener						

	14. Transport information
DOT	Not regulated
Proper technical name	2-Decenal, (E)-
TDG	Not regulated
UN-No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
Packing Group	III
IMDG/IMO	
UN-No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
Packing Group	III
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
2-Decenal, (E)-	Х	Х	-	223-474-2	-		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 Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Haz Reactive Hazard	zard	Yes No No No
CWA (Clean Water Act)	Not applicable	
Clean Air Act	Not applicable	
OSHA Occupational Safety and Health Not applicable	n Administration	
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	N N	

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

DOT Severe Marine Pollutant

Mexico - Grade

Slight risk, Grade 1

Ν

16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	26-May-2017 26-May-2017 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