

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 4

1. Identification **Product Name** 3,3-Dimethylpentane Cat No. : AC152660000; AC152660010; AC152660050; AC152660250 CAS No 562-49-2 **Synonyms** Heptane isomer. **Recommended Use** Laboratory chemicals. Food, drug, pesticide or biocidal product use. Uses advised against Details of the supplier of the safety data sheet Company Acros Organics Fisher Scientific Company One Reagent Lane One Reagent Lane Fair Lawn, NJ 07410 Fair Lawn, NJ 07410 Tel: (201) 796-7100

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
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 Eves 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)

Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS No	Weight %
3,3-Dimethylpentane	562-49-2	99

4. First-aid measures

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 soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention. Risk of serious damage to the lungs (by aspiration).
Ingestion	Clean mouth with water. Get medical attention. 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	Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting Treat symptomatically

5. Fire-fighting measures

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

Unsuitable Extinguishing Media	No information available
Flash Point	-6 °C / 21.2 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	7.00%
Lower	1.00%
Sensitivity to Mechanical Impact	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Flammable. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air. 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 3	Flammability 3	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions	Do not flush into surface v contaminate ground water	ition. Take precautionary measu vater or sanitary sewer system. I system. Prevent product from e icant spillages cannot be contain	Do not allow material to not allow material to not allow material to
Methods for Containment and Cle Up	sawdust). Keep in suitable Use spark-proof tools and	e, closed containers for disposal.	Remove all sources of ignition. vide adequate ventilation. Do not

	7. Handling and storage
Handling	Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Contents may develop pressure upon prolonged storage. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Flammables area. Keep container tightly closed in a dry and well-ventilated place. Incompatible Materials. Acids. Strong oxidizing agents.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
3,3-Dimethylpentane	TWA: 400 ppm			
	STEL: 500 ppm			

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists

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	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	Colorless
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-135 °C / -211 °F
Boiling Point/Range	86 °C/186.8 °F @ 760 mmHg
Flash Point	-6 °C / 21.2 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	7.00%
Lower	1.00%
Vapor Pressure	191 mbar @ 37.7 °C
Vapor Density	No information available
Specific Gravity	0.690
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available

No information available No information available C7 H16 100.2

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	Acids, Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

10. Stability and reactivity

11. Toxicological information

Acute Toxicity

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

No information available

Sensitization

Carcinogenicity

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
3,3-Dimethylpentane	562-49-2	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 exposure STOT - repeated exposure		Central nervous system (CNS) None known					
Aspiration hazard		No information ava	ailable				
Symptoms / effects delayed	,both acute and	Inhalation of high tiredness, nausea	•	ns may cause sym	ptoms like headac	he, dizziness,	
Endocrine Disruptor Information		No information available					
Other Adverse Effect	cts	The toxicological p	properties have not	been fully investig	jated.		
		12. Ecol	ogical infor	mation			

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the 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 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	UN1206
Hazard Class	3
Packing Group	II
<u>TDG</u>	
UN-No	UN1206
Hazard Class	3
Packing Group	II
<u>IATA</u>	
UN-No	UN1206
Proper Shipping Name	Heptanes
Hazard Class	3
Packing Group	ll

UN-No	UN1206
Proper Shipping Name	Heptanes
Hazard Class	3
Packing Group	II
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
3,3-Dimethylpentane	562-49-2	Х	ACTIVE	-

Legend:

IMDG/IMO

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
3,3-Dimethylpentane	562-49-2	-	Х	209-230-8	Х	Х	Х	-	Х	KE-11735

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.
California Proposition 65 U.S. State Right-to-Know Regulations	This product does not contain any Proposition 65 chemicals. Not applicable
U.S. State Right-to-Know	

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	- J
3,3-Dimethylpentane	-	Use restricted. See item 75.	-
		(see link for restriction details)	

https://echa.europa.eu/substances-restricted-under-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 Substances (RoHS)
3,3-Dimethylpentane	562-49-2	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)
3,3-Dimethylpentane	562-49-2	Not applicable	Not applicable	Not applicable	Not applicable

	<u> </u>		
- 16.	Other	inform	natior

Prepared By

Regulatory Affairs

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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

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