

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/22/2021

Version number 1.00

Revision: 04/22/2021

1 Identification

Product identifier

Trade name: Data Sheet No.: Synonyms:	Dimethyl adipate P0653 Adipic acid, dimethyl ester Dimethyl hexanedioate Hexanedioic acid, dimethyl ester 1,6-dimethyl hexanedioate DMA
CAS Number: EC number:	627-93-0 211-020-6
Application of the substance / the mixture	Intermediate

Details of the supplier of the safety data sheet

Manufacturer/Supplier: Information department: Emergency telephone number:	Vertellus Specialties Austria GmbH St.-Peter-Straße 25 A-4020 Linz / AUSTRIA Tel. +43(0)732 662200 sds@vertellus.com Austria: Tel.: +43(0)732 6982-2249, 0-24 h CHEMTREC (0-24 h): 1-800-424-9300 / +1 703-527-3887 CCN837821
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2 Hazard(s) identification

Classification of the substance or mixture The substance is not classified, according to the Globally Harmonized System (GHS).

Label elements

GHS label elements Hazard pictograms Signal word Hazard statements	Void Void Void Void
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Classification system:
NFPA ratings (scale 0 - 4)

HMIS-ratings (scale 0 - 4)

Other hazards
Results of PBT and vPvB assessment

PBT: vPvB:	Not applicable. Not applicable.
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3 Composition/information on ingredients

Chemical characterization: Substances

CAS No. Description	627-93-0 Dimethyl adipate
Identification number(s)	
EC number:	211-020-6
Additional information:	
Molecular weight (g/mol):	174.2
Molecular formula:	C8 H14 O4
HS-Code (Customs Tariff):	2917 19 80 90

4 First-aid measures

Description of first aid measures

General information:	Immediately remove any clothing soiled by the product.
After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Immediately wash with water and soap and rinse thoroughly.
After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:	If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects,
both acute and delayed Skin irritation

Indication of any immediate medical
attention and special treatment
needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment.
Carbon dioxide
Alcohol resistant foam
Fire-extinguishing powder
Water spray

For safety reasons unsuitable extinguishing agents:



Water with full jet

Special hazards arising from the substance or mixture

In case of fire, the following can be released:

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Carbon monoxide (CO)

Advice for firefighters
Protective equipment:

 Wear self-contained respiratory protective device.
 Wear fully protective suit.

Additional information

 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures
Personal precautions, protective equipment and emergency procedures

 Wear protective clothing.
 Use respiratory protective device against the effects of fumes/dust/aerosol.
 Ensure adequate ventilation
 See section 8

Environmental precautions:

 Do not allow to enter sewers/ surface or ground water.
 Keep contaminated washing water and dispose of appropriately.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

PAC-1:

Substance is not listed.

PAC-2:

Substance is not listed.

PAC-3:

Substance is not listed.

7 Handling and storage
Handling:
Precautions for safe handling

 Keep receptacles tightly sealed.
 Store in cool, dry place in tightly closed receptacles.

Information about protection against explosions and fires:

No special measures required.

Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:

Store in a cool location.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Further information about storage conditions:

 Store in dry conditions.
 Store receptacle in a well ventilated area.

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Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace: Not required.

DNEL Inhalation

Systemic, Long-term:		
627-93-0	Dimethyl adipate	8,3 mg/m ³
8.3 mg/m ³		

PNEC

PNEC Freshwater:		
627-93-0	Dimethyl adipate	0,018 mg/L
0.018 mg/L		

PNEC Intermittent releases (freshwater)		
627-93-0	Dimethyl adipate	0,18 mg/L
0.18 mg/L		

PNEC Marine water 0.002 mg/L

PNEC Sewage treatment plant (STP)		
627-93-0	Dimethyl adipate	10 mg/L
10 mg/L		

PNEC Sediment (freshwater):		
627-93-0	Dimethyl adipate	0,16 mg/L
0.16 mg/L		

PNEC Sediment (marine water): 0.016 mg/kg
PNEC Soil: 0.09 mg/kg

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:



In case of brief exposure or low pollution use respiratory filter device.
 In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:
Filter A/P2

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Protection of hands:	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Penetration time of glove material	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
For the permanent contact gloves made of the following materials are suitable:	Butyl rubber, BR
Eye protection:	 Safety glasses
Body protection:	Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Color:	Colorless
Odor:	Sweetish
Odor threshold:	Not determined.

pH-value: Not determined.

Change in condition

Melting point/Melting range:	9.1 °C (48.4 °F)
Boiling point/Boiling range:	109 °C (228.2 °F)

Flash point: 116 °C (240.8 °F)

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 400 °C (752 °F)

Decomposition temperature: Not determined.

Auto igniting: Not determined.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

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Vapor pressure at 20 °C (68 °F):	0.025 hPa (0 mm Hg)
Density at 20 °C (68 °F):	1.062 g/cm ³ (8.86239 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water at 20 °C (68 °F):	4 g/l
Partition coefficient (n-octanol/water) log P_{ow}:	1.4 3,9 (20 °C)
Viscosity:	
Dynamic at 20 °C (68 °F):	3.03 mPas
Kinematic:	Not determined.

Other information No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

Oral	LD50	>5,000 mg/kg (Rat) (OECD Guideline 423)
Dermal	LD50	>5,000 mg/kg (Rabbit) (OECD Guideline 402)
Inhalative	LC50/4 h	>11 mg/L (Rat) (OECD Guideline 403)

Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

IARC (International Agency for Research on Cancer) Substance is not listed.
NTP (National Toxicology Program) Substance is not listed.

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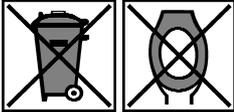
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OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information	
Toxicity	
Aquatic toxicity:	
Daphnia: EC50 (48h)	72 mg/L (Daphnia magna)
Algae EC10 (72h)	36 mg/L (Pseudokirchneriella subcapitata)
Algae: EC50 (72h)	85 mg/L (Pseudokirchneriella subcapitata)
Persistence and degradability	
	biodegradable
Behavior in environmental systems:	
Bioaccumulative potential	
	Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
Mobility in soil	
	No further relevant information available.
Additional ecological information:	
General notes:	
	Water hazard class 1 (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Results of PBT and vPvB assessment	
PBT:	
	Not applicable.
vPvB:	
	Not applicable.
Other adverse effects	
	No further relevant information available.

13 Disposal considerations	
Waste treatment methods	
Recommendation:	
	Must be specially treated adhering to official regulations.
	 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
	Contact manufacturer for recycling information.
Uncleaned packagings:	
Recommendation:	
	Disposal must be made according to official regulations. Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

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14 Transport information

UN-Number

IMDG, IATA

not regulated

UN proper shipping name

DOT, IMDG, IATA

not regulated

Transport hazard class(es)

ADN/R Class:

not regulated

Packing group

IMDG, IATA

not regulated

Environmental hazards:

Not applicable.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC
Code

Not applicable.

UN "Model Regulation":

not regulated

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Section 355 (extremely
hazardous substances):

Substance is not listed.

Section 313 (Specific toxic
chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act): ACTIVE

Hazardous Air Pollutants

Substance is not listed.

Chemicals known to cause
cancer:

Substance is not listed.

Chemicals known to cause
reproductive toxicity for
females:

Substance is not listed.

Chemicals known to cause
reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause
developmental toxicity:

Substance is not listed.

EPA (Environmental Protection
Agency)

Substance is not listed.

TLV (Threshold Limit Value)

Substance is not listed.

NIOSH-Ca (National Institute for
Occupational Safety and Health)

Substance is not listed.

GHS label elements

Void

Hazard pictograms

Void

Signal word

Void

Hazard statements

Void

Directive 2012/18/EU
Named dangerous substances -
ANNEX I

Substance is not listed.

International inventories/regulations:
Canada (DSL):

Substance is listed.

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China (IECSC):	Substance is listed.
Japan (ENCS):	Substance is listed.
Korea (KECI):	Substance is listed.
New Zealand (NZIoC):	Substance is listed.
Philippines (PICCS):	Substance is listed.
Taiwan (TCSI):	Substance is listed.
USA (TSCAnew):	Substance is listed.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact:

Vertellus Regulatory Management
Tel. +1-317-247-8141
email: sds@vertellus.com

04/22/2021 / -

Date of preparation / last revision

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit