

Reviewed on 01/09/2024

Page 1/8

1 Identification

· Product identifier

- · Product Name: Phthalate Standard
- · Part Name: C1001-09
- · Application of the substance / the mixture For Laboratory Use Only
- · Uses advised against Not for Human or Animal Use
- · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Spex CertiPrep, LLC. 203 Norcross Ave, Metuchen, NJ 08840 USA 732-549-7144
- USMet-CRMSales@antylia.com
- · Information department: product safety department · Emergency telephone number: Emergency Phone Number (24 hours)
- CHEMTREC (800-424-9300) Outside US: 703-527-3887

2 Hazard(s) identification

Classification of the substance or mixture

GHS02 Flame

Flammable Liquids 2

GHS08 Health hazard

Carcinogenicity 2 Toxic to Reproduction 1B Aspiration Hazard 1



Skin Irritation 2

Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

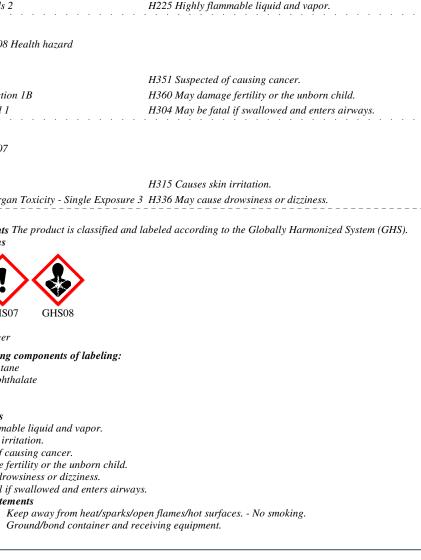
Label elements

- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling: 2,2,4-trimethylpentane bis(2-ethylhexyl) phthalate dibutyl phthalate BBP · Hazard statements H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H351 Suspected of causing cancer. H360 May damage fertility or the unborn child. H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways. Precautionary statements P210 P240



Safety Data Sheet acc. to OSHA HCS

Reviewed on 01/09/2024

certiprep
Printing date 01/09/2024

Product Name: Phthalate Standard

(Contd.	of nage	1)
(Conta.	of page	1)

P241	Use explosion-proof electrical/ventilating/lighting/equipment.
	1 1 5 0 0 0 1 1
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Classification syste	m:

• NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)



\cdot Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerou	s components:	
540-84-1	2,2,4-trimethylpentane	99.4%
84-74-2	dibutyl phthalate	0.1%
85-68-7	BBP	0.1%
	bis(2-ethylhexyl) phthalate	0.1%
117-84-0	Di-n-octyl Phthalate	0.1%
	· Chemical identification of the substance/preparation	
	0 di-"isodecyl" phthalate	0.1%
28553-12-	0 diisononyl phthalate	0.1%

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 rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Do not give anything to eat or drink Do not induce vomitting
- · Information for Doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.

Product Name: Phthalate Standard

(Contd. of page 2)

Page 3/8

Reviewed on 01/09/2024

· Advice for firefighters

· Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose contaminated material as waste according to section 13.
- Ensure adequate ventilation.
- · 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. Protective Action Criteria for Chemicals
- · PAC-1: 540-84-1 2,2,4-trimethylpentane 230 ppm 84-74-2 dibutyl phthalate 15 mg/m³ 85-68-7 BBP 15 mg/m³ 117-81-7 bis(2-ethylhexyl) phthalate 10 mg/m³ 117-84-0 Di-n-octyl Phthalate 41 mg/m³ · PAC-2: 540-84-1 2,2,4-trimethylpentane 830 ppm 84-74-2 dibutyl phthalate 1,600 mg/m³ BBP 85-68-7 77 mg/m³ 117-81-7 bis(2-ethylhexyl) phthalate 1,000 mg/m³ 117-84-0 Di-n-octyl Phthalate 450 mg/m³ · PAC-3: 540-84-1 2,2,4-trimethylpentane 5000* ppm 84-74-2 dibutyl phthalate 9300* mg/m³ 85-68-7 BBP 460 mg/m³ 117-81-7 6,100 mg/m³ bis(2-ethylhexyl) phthalate 117-84-0 Di-n-octyl Phthalate 11000* mg/m³

Safety Data Sheet acc. to OSHA HCS

7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Prevent formation of aerosols.
- · Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.
- Keep respiratory protective device available.
- · 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: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 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 section 7.

· Control parameters

- · Components with limit values that require monitoring at the workplace:
- The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Product Name: Phthalate Standard

Page 4/8

	(Contd. of page 3)
540-84-1 2,2,4-trimethylpentane	
TLV Long-term value: 300 ppm	
84-74-2 dibutyl phthalate	
PEL Long-term value: 5 mg/m ³	
REL Long-term value: 5 mg/m ³	
TLV Long-term value: 5 mg/m ³	
117-81-7 bis(2-ethylhexyl) phthalate	
PEL Long-term value: 5 mg/m ³	
REL Short-term value: 10 mg/m ³	
Long-term value: 5 mg/m ³	
See Pocket Guide App. A	
TLV Long-term value: 0.1 mg/m ³	
Skin, A3	
• Additional information: The lists that were valid during the creation were used as basis.	

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work. Store protective clothing separately.

· Respiratory protection:

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.

· Protection of hands:



Protective gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• 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. • Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	According to product specification	
· Odor:	Characteristic	
Odour Threshold:	Not applicable.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	99 °C (210.2 °F)	
Flash point:	$< 0 \ ^{\circ}C \ (< 32 \ ^{\circ}F)$	
Flammability (solid, gaseous):	Highly flammable.	
Auto igniting:	410 °C (770 °F)	
Decomposition temperature:	Not applicable.	

(Contd. on page 5)

Product Name: Phthalate Standard

Reviewed on 01/09/2024

Page	5/8

		(Contd. of page 4)
· Ignition temperature:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
· Explosion limits:		
Lower:	1.1 Vol %	
Upper:	6 Vol %	
· Vapor pressure at 20 °C (68 °F):	15 hPa (11.3 mm Hg)	
· Density at 20 °C (68 °F)	0.69194 g/cm³ (5.77424 lbs/gal)	
· Relative density	Not applicable.	
· Vapor density	Not applicable.	
• Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/water	r): Not applicable.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	99.4 %	
VOC content:	99.40 %	
Solids content:	0.0 %	
· Other information	No further relevant information available.	

Safety Data Sheet

acc. to OSHA HCS

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: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations:
- Irritant

Product is suspected to cause damage to fertility. Product is suspected to cause birth defects.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
85-68-7 BBP	3
117-81-7 bis(2-ethylhexyl) phthalate	28
· NTP (National Toxicology Program)	
117-81-7 bis(2-ethylhexyl) phthalate	R
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.

Product Name: Phthalate Standard

- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- · 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 not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

4 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1262
· UN proper shipping name · DOT · ADR	Octanes 1262 OCTANES, ENVIRONMENTALLY HAZARDOUS
· IMDG · IATA	OCTANES, MARINE POLLUTANT OCTANES
· Transport hazard class(es)	
· Class · Label	3 Flammable liquids 3
· ADR, IMDG	
· Class · Label	3 Flammable liquids 3
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, ADR, IMDG, IATA	11
· Environmental hazards: · Marine pollutant: · Special marking (ADR):	Product contains environmentally hazardous substances: 2,2,4-trimethylpenta Symbol (fish and tree) Symbol (fish and tree)
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category 	Warning: Flammable liquids 33 F-E,S-E B
· Transport in bulk according to Annex II of MARPOL73/78 an	ud the IBC Code Not applicable.

 $(Contd. \ of \ page \ 5)$

Page 6/8

Product Name: Phthalate Standard

Page 7/8

	(Contd. of page 6)
· Transport/Additional information:	
· ADR · Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1262 OCTANES, 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. • Sara

Suru	
· Section 313 (Specific toxic chemical listings):	
84-74-2 dibutyl phthalate	
117-81-7 bis(2-ethylhexyl) phthalate	
· TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
· Hazardous Air Pollutants	
540-84-1 2,2,4-trimethylpentane	
84-74-2 dibutyl phthalate	
117-81-7 bis(2-ethylhexyl) phthalate	
· Proposition 65	
· Chemicals known to cause cancer:	
117-81-7 bis(2-ethylhexyl) phthalate	
28553-12-0 diisononyl phthalate	
· Chemicals known to cause reproductive toxicity for females:	
84-74-2 dibutyl phthalate	
· Chemicals known to cause reproductive toxicity for males:	
84-74-2 dibutyl phthalate	
117-81-7 bis(2-ethylhexyl) phthalate	
· Chemicals known to cause developmental toxicity:	
84-74-2 dibutyl phthalate	
85-68-7 BBP	
117-81-7 bis(2-ethylhexyl) phthalate	
26761-40-0 di-"isodecyl" phthalate	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
540-84-1 2,2,4-trimethylpentane	II
84-74-2 dibutyl phthalate	D
85-68-7 BBP	С
117-81-7 bis(2-ethylhexyl) phthalate	B2

• **TLV (Threshold Limit Value)** 117-81-7 bis(2-ethylhexyl) phthalate

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

117-81-7 bis(2-ethylhexyl) phthalate

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



A3

certipren

Printing date 01/09/2024

Product Name: Phthalate Standard

Reviewed on 01/09/2024

(Contd. of page 7)

Page 8/8

roauci Name: Eninatate Stanaara		
2 r		
g components of labeling:		
ane		
hthalate		
nable liquid and vapor.		
rritation.		
causing cancer.		
fertility or the unborn child.		
rowsiness or dizziness.		
if swallowed and enters airways.		
ements		
Keep away from heat/sparks/open flames/hot surfaces No smoking.		
Ground/bond container and receiving equipment.		
Use explosion-proof electrical/ventilating/lighting/equipment.		
Avoid breathing dust/fume/gas/mist/vapors/spray		
Wear protective gloves/protective clothing/eye protection/face protection.		
If swallowed: Immediately call a poison center/doctor.		
Specific treatment (see on this label).		

P331 Do NOT induce vomiting. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a poison center/doctor if you feel unwell.

P362+P364

Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 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.

Safety Data Sheet

acc. to OSHA HCS

· Department issuing SDS: product safety department

- · Contact:
- Spex CertiPrep, LLC.
- 1-732-549-7144
- · Date of preparation / last revision 01/09/2024
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) 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
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- 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
- Flammable Liquids 2: Flammable liquids Category 2 Skin Irritation 2: Skin corrosion/irritation Category 2 Carcinogenicity 2: Carcinogenicity Category 2

- Toxic to Reproduction IB: Reproductive toxicity Category IB Specific Target Organ Toxicity Single Exposure 3: Specific target organ toxicity (single exposure) Category 3
- Aspiration Hazard 1: Aspiration hazard Category 1