Safety Data Sheet

Tris(2-ethylhexyl) phosphate

Version: V2.0.0.1

Report No.: BWJ5436-2016-MSDS-US

Creation Date: 2025/10/09

Revision Date: -



*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1	Identification
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| Product identifier

Product Name	Tris(2-ethylhexyl) phosphate
Cat No.	BWJ5436-2016
CAS No.	78-42-2
EC No.	201-116-6
Molecular Formula	C24H51O4P

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

| Emergency phone number

Emorgonov	phone number	010 50102670
Emergency	phone number	010-58103678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Skin Corrosion/Irritation | Category 2

Label elements

Hazard pictograms



Signal word

Warning

| Hazard statements

•	
H315	Causes skin irritation

| Precautionary statements

Prevention

P264	Wash hands and other parts of the body (if related) thoroughly after handling.		
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.		
A Decrees			

Response

P321 Specific treatment (see related instructions on the label).	
P302+P352	IF ON SKIN: Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.

Storage

Storage	Not applicable
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Disposal

Disposal Not applicable

Other hazards

Not applicable.

| Hazard description

Health hazards

Physical and chemical hazards

No information available		
	Inhalation of the product may produce	adverse health effects or irritation of the

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Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individua
Skin Contact	Redness. Pain.
Eye	Redness. Pain.

Environmental hazards

Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

Substance/mixture

Substance

Component	CAS No.	EC No.	Concentration (wt, %)
Tris(2-ethylhexyl)	78-42-2	201-116-6	99.4
phosphate			

4 First-aid measures

Description of first aid measures

General advice	ral advice Immediate medical attention is required. Show this safety data sheet (SDS) to the	
	doctor in attendance.	
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily	
	possible), then take to a doctor.	
Skin contact	Rinse skin with plenty of water or shower. Refer for medical attention.	

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Ingestion Inhalation Protecting of first-aiders		Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Give plenty of water to drink. Refer for medical attention.	
		Fresh air, rest. Refer for medical attention. Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.	
Мо	st important symptoms/eff	fects, acute and delayed	
Mo		the human body, may occur and may cause some concern following repeated or	
1	Substance accumulation, in long-term occupational expos	the human body, may occur and may cause some concern following repeated or	
1	Substance accumulation, in long-term occupational expos	the human body, may occur and may cause some concern following repeated or sure.	

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

- 1 Development of hazardous combustion gases or vapor possible in the event of fire.
- 2 May expansion or decompose explosively when heated or involved in fire.

| Special protective equipment and precautions for fire-fighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 1 Use personal protective equipment, do not breathe gas/mist/vapour/spray.
- Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 3 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

- 1 Cut off the source of the leak as much as possible.
 - 2 Keep leaks in a ventilated place.
- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 4 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

7 Handling and storage

Precautions for safe handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

| Control parameters

Occupational Exposure limit values

No relevant regulations

| Engineering controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

Personal protection equipment

General requirement		
Eye protection	Must wear appropriate safety goggles.	
Hand protection	Must wear appropriate chemical protective gloves.	
Respiratory protection	Must wear appropriate personal respiratory protective equipment.	
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.	

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

Appearance (physical state,	colorless liquid
color, etc.)	
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	-74
Initial boiling point and boiling	220 (0.7kPa)
range(°C)	

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Flact 1 (0) 1 00)	470	
Flash point(Closed cup,°C)	170	
Evaporation rate	No information available	
Flammability No information available		
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available	
Vapor pressure	<1Pa (20°C)	
Vapor density(Air = 1)	15	
Relative density(Water=1)	0.93	
Solubility	Insoluble in water (20°C)	
n-octanol/water partition	> 6.26 (25 °C, pH: 7)	
coefficient		
Auto-ignition temperature(°C)	370	
Decomposition temperature(°C)	280	
Kinematic viscosity	No information available	

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability Stable under proper operation and storage conditions.	
Possibility of hazardous	No information available.
reactions	
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Tris(2-ethylhexyl) phosphate	37000mg/kg(Rat)	20000mg/kg(Rabbit)	No information available

Carcinogenicity

Component	List of carcinogens by	Report on Carcinogens	OSHA Carcinogen List
	the IARC Monographs	by NTP	
Tris(2-ethylhexyl)	Not Listed	Not Listed	Not Listed
phosphate			

Others

	Tris(2-ethylhexyl) phosphate(Component)
Skin corrosion/irritation	Causes skin irritation(Category 2)
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met

STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met

12 Ecological information

| Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic
			plants
Tris(2-ethylhexyl)	LC ₅₀ :>40mg/L (96h)(Fish)	EC ₅₀ : >100mg/L	ErC ₅₀ : >40mg/L
phosphate		(48h)(Crustaceans)	(72h)(Algae)

| Chronic aquatic toxicity

	Component	Fish	Crustaceans	Algae or other aquatic plants	
Γ	Tris(2-ethylhexyl)	NOEC: > 40mg/L(Fish)	NOEC:	NOEC: 40mg/L(Algae)	
	phosphate		1.0mg/L(Crustaceans)		

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Tris(2-ethylhexyl)	High	High
phosphate		

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Tris(2-ethylhexyl)	Low	BCF=22
phosphate		

Mobility in soil

Component	log Koc	Remark
Tris(2-ethylhexyl)	4	
phosphate		

13 Disposal considerations

| Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and			
	regulation. Recommend the use of incineration disposal.			
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot			
	and ignition source of fire. Return to supplier for recycling if possible.			
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.			

14 Transport information

Label and Mark

Transporting Label	Not applicable
manoporting Labor	The applicable

IMDG-CODE

	VOISION : VEISION ENGLISH BUILD :
IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
IATA-DGR	
IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
UN-ADR	
UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Transport in bulk according t	o IMO instruments
◆Transport in bulk according	to Annex II of MARPOL and the IBC code
	Not Available
◆ Transport in bulk in accorda	nce with MARPOL Annex V and the IMSBC Code
	Not Available
◆Transport in bulk in accorda	nce with the IGC Code
	Not Available

Others

Precautions for transport

Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

15 Regulatory information

International chemical inventory

Component	Α	В	С	D	Е	F	G	Н	I	J	K	L	M
Tris(2-ethylhexyl) phosphate	√	√	1	√	√	√	√	√	√	√	×	V	√

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZIoC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- 【G】 Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	Α	В	С
Tris(2-ethylhexyl)	×	×	×
phosphate			

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	Е	F	G	Н
Tris(2-ethylhexyl) phosphate	×	×	×	×	×	×	×	×

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- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/10/09
Revision Date	-
Reason for revision	-

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

Chemical Abstracts Service	UN	The United Nations
Short term exposure limit	OECD	Organization for Economic Co-operation and Development
Time Weighted Average	IMDG-	International Maritime Dangerous Goods CODE
Time Weighted Weilage	CODE	momational manufactors and a control of the control
Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
Derived No Effect Level	ICAO	International Civil Aviation Organization
Predicted No Effect Concentration	IATA	International Air Transportation Association
No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
Lethal Concentration 50%	NFPA	National Fire Protection Association
Lethal Dose 50%	NTP	National Toxicology Program
Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
Bioconcentration factor	RPE	Respiratory Protective Equipment
Endocrine dis ruptor	HCS	Hazard Communication Standard
	Short term exposure limit Time Weighted Average Maximum Allowable Concentration Derived No Effect Level Predicted No Effect Concentration No Observed Effect Concentration Lethal Concentration 50% Lethal Dose 50% Effective Concentration 50% Effective Concentration X% Partition coefficient Octanol: Water Bioconcentration factor	Short term exposure limit Time Weighted Average Maximum Allowable Concentration Derived No Effect Level Predicted No Effect Concentration No Observed Effect Concentration Lethal Concentration 50% NFPA Lethal Dose 50% Effective Concentration 50% PBT Effective Concentration X% Partition coefficient Octanol: Water Bioconcentration factor OECD IMDES IM

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of

information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.