

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	
Product name	: Aroclor 1254 (0.5 ppm)
Product code	: AL0-130520
	stance or mixture and uses advised against
1.3. Details of the supplier of the safety	[,] data sheet
Phenova 6390 Joyce Dr. Suite 100 Golden, CO 80403 - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com	
1.4. Emergency telephone number	
Emergency number	: ChemTel Assistance (US/Canada) 1-800-255-3924 ChemTel Assistance (International) +1 813-248-0585
SECTION 2: Hazards identification	
2.1. Classification of the substance or r	nixture
GHS-US classification	
Flam. Liq. 2	H225
Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS02
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H225 - Highly flammable liquid and vapour
Precautionary statements (GHS-US)	: P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking.
	 P233 - Keep container tightly closed. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P370+P378 - In case of fire: Use media other than water to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
No data available	
SECTION 3: Composition/Information	on on ingredients
3.1. Substances	
Not applicable	
3.2 Mixturas	

3.2. Mixtures Name **Product identifier** % **GHS-US** classification 2,2,4-trimethylpentane (Component) (CAS-No.) 540-84-1 99.99995 Flam. Liq. 2, H225

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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	s : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get
-	medical advice/attention.
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	 Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and e	
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate me	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	9S
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release m	ieasures
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. N	lotify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contai	nment and cleaning up
Methods for cleaning up	: Take up in absorbent material. Collect spillage.
6.4. Reference to other sections	
See Heading 8. Exposure controls and perso	onal protection.
SECTION 7: Handling and storag	e
7.1. Precautions for safe handling	
Precautions for safe handling	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures	 Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage conditions	: Keep container closed when not in use. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.
Incompatible materials	: Direct sunlight.
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7.3. Specific end use(s)		
No additional information availab	ble	
SECTION 8: Exposure c	ontrols/personal protection	
8.1. Control parameters		
2,2,4-trimethylpentane (540-8	34-1)	
USA ACGIH	ACGIH TWA (ppm)	300 ppm (Octane, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
8.2. Exposure controls		
Appropriate engineering controls : Either local exhaust or general room ventilation is usually required.		al room ventilation is usually required.
Personal protective equipment	: Avoid all unnecessary exposi glasses.	re. Gloves. Protective clothing. Protective goggles. Safety
	R R	
Hand protection	: Wear chemically resistant pro penetration.	tective gloves. Wear suitable gloves resistant to chemical
Eye protection	protection : Chemical goggles or safety glasses. Safety glasses.	
Skin and body protection	: Wear chemically protective gl contact.	oves, lab coat or apron to prevent prolonged or repeated skin
Respiratory protection	spiratory protection : Wear appropriate mask.	
Other information	: Do not eat, drink or smoke du	ring use.
SECTION 9: Physical an	d chemical properties	
9.1. Information on basic	physical and chemical properties	
Physical state	: Liquid	
Color	Colorless.	
Odor	: characteristic.	
Odor threshold	: No data available	

Odor threshold	:	No data available
рН	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Log Pow	:	No data available
Log Kow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Explosion limits	:	No data available
9.2. Other information		

No additional information available

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SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Not established.		
10.3. Possibility of hazardous reactions		
Not established.		
10.4. Conditions to avoid		
Direct sunlight. Extremely high or low temperatures.		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
No additional information available		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
2,2,4-trimethylpentane (540-84-1)		
LD50 oral rat	> 5000 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)	
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)	
LC50 inhalation rat (mg/l)	> 33.52 mg/l/4h (Rat; Experimental value)	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
erm cell mutagenicity : Not classified		

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LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	> 33.52 mg/l/4h (Rat; Experimental value)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated	: Not classified
exposure	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
-	Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

2,2,4-trimethylpentane (540-84-1)		
LC50 fish 1	18.4 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Read-across, GLP)	
EC50 Daphnia 1	0.4 mg/l (EC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Read-across)	
Threshold limit algae 1	2.943 mg/l (EC50; Other; 72 h; Pseudokirchneriella subcapitata; Fresh water)	
12.2. Persistence and degradability	у	
Aroclor 1254 (0.5 ppm)		
Persistence and degradability	and degradability Not established.	
2,2,4-trimethylpentane (540-84-1)		
Persistence and degradability Not readily biodegradable in water. Non degradable in the soil.		
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2,2,4-trimethylpentane (540-84-1)	
ThOD	3.5 g O ₂ /g substance
2.3. Bioaccumulative potential	
Aroclor 1254 (0.5 ppm)	
Bioaccumulative potential	Not established.
2,2,4-trimethylpentane (540-84-1)	
BCF fish 1	231 (BCFBAF v3.00, Pisces, Calculated value)
BCF fish 2	231 (BCF)
Log Pow	4.08 - 5.18 (Calculated; KOWWIN)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
2.4. Mobility in soil	
2,2,4-trimethylpentane (540-84-1)	
Log Koc	log Koc,SRC PCKOCWIN v2.0; 2.58; Calculated value; Koc; SRC PCKOCWIN v2.0; 240.3; Calculated value
2.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	S
3.1. Waste treatment methods	: Dispose in a safe manner in accordance with local/national regulations.
Product/Packaging disposal recommendations	
cology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
accordance with DOT	
ransport document description	: UN1993 Flammable liquids, n.o.s. (2,2,4-trimethylpentane), 3, II
N-No.(DOT)	: 1993
OT NA no.	: UN1993
roper Shipping Name (DOT)	: Flammable liquids, n.o.s.
	2,2,4-trimethylpentane
class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
lazard labels (DOT)	: 3 - Flammable liquid
	CAMMARE LOQUID 3
OOT Symbols	: G - Identifies PSN requiring a technical name
acking group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal
OOT Packaging Exceptions (49 CFR 173.xxx)	: 150
OT Packaging Non Bulk (49 CFR 173.xxx)	: 202
OOT Packaging Bulk (49 CFR 173.xxx)	: 242
OOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 5L
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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	9 : 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Additional information	
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.
ADR	
Transport document description	:
Transport by sea	
UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
JN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger
15.1. US Federal regulations 2,2,4-trimethylpentane (540-84-1) Listed on the United States TSCA (Toxic Subs CERCLA RQ	tances Control Act) inventory 1000 lb
15.2. International regulations	
CANADA	
2,2,4-trimethylpentane (540-84-1)	
Listed on the Canadian DSL (Domestic Substa	ances List)
EU-Regulations No additional information available	
Classification according to Regulation (EC) I Not classified	No. 1272/2008 [CLP]
Classification according to Directive 67/548/I Not classified	EEC [DSD] or 1999/45/EC [DPD]
15.2.2. National regulations	
2,2,4-trimethylpentane (540-84-1)	
Listed on EPA Hazardous Air Pollutant (HAPS)
15.3. US State regulations	

U.S. - California - Proposition 65 - Carcinogens List

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U.S California - Proposition 65 - Developmental Toxicity		No		
U.S California - Proposition 65 - Reproductive Toxicity - Female		No		
U.S California - Proposition 65 - Reproductive Toxicity - Male		No		
2,2,4-trimethylpentane (540	-84-1)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

SECTION 16: Other information	
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

Hazard Rating

PHV SDS US

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