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Safety Data Sheet acc. to OSHA HCS

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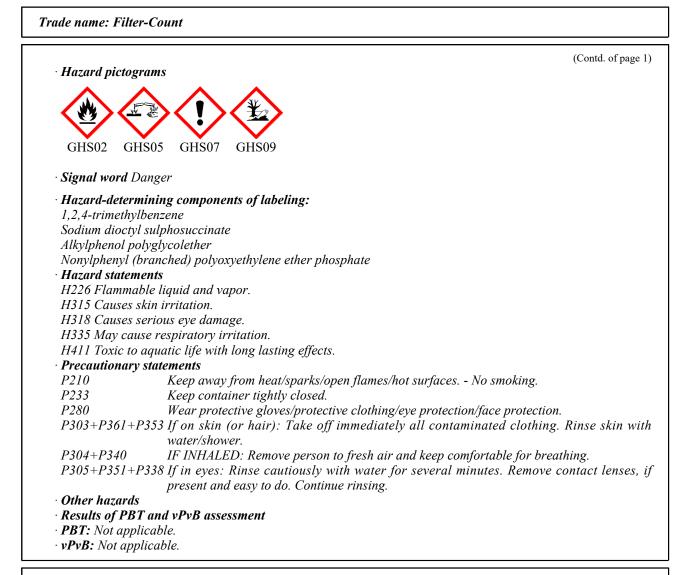
Reviewed on 11/28/2023

· Product identifier	
• Trade name: <u>Filter-Count</u>	
• Article number: 6013149, 6013141 • Application of the substance / the ma	ixture Laboratory chemicals
• Details of the supplier of the safety of • Manufacturer/Supplier: Revvity Health Sciences B.V. Rigaweg 22 9723 TH Groningen The Netherlands Phone: 0031 50 5445900 www.revvity.com	lata sheet
 Information department: Quality Assurance, Environment, Saf SDS.Groningen@revvity.com Emergency telephone number: +31 50 5445971 	
CHEMTREC (within U.S.A. and Can CHEMTREC (from outside U.S.A. and	
2 Hazard(s) identification	
Classification of the substance or ma GHS02 Flame	ixture
· Classification of the substance or m	ixture H226 Flammable liquid and vapor.
Classification of the substance or ma	
Classification of the substance or ma GHS02 Flame Flammable Liquids 3	
Classification of the substance or ma GHS02 Flame Flammable Liquids 3 GHS05 Corrosion	H226 Flammable liquid and vapor.
Classification of the substance or ma GHS02 Flame Flammable Liquids 3 GHS05 Corrosion Eye Damage 1	H226 Flammable liquid and vapor.
Classification of the substance or ma GHS02 Flame Flammable Liquids 3 GHS05 Corrosion Eye Damage 1 GHS09 Environment	H226 Flammable liquid and vapor. H318 Causes serious eye damage.
Classification of the substance or ma GHS02 Flame Flammable Liquids 3 GHS05 Corrosion Eye Damage 1 GHS09 Environment Aquatic Chronic 2	H226 Flammable liquid and vapor. H318 Causes serious eye damage.
Classification of the substance or ma GHS02 Flame Flammable Liquids 3 GHS05 Corrosion Eye Damage 1 Curron GHS09 Environment Aquatic Chronic 2 GHS07 Skin Irritation 2	H226 Flammable liquid and vapor. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.



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3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

95-63-6	1,2,4-trimethylbenzene	60-80%
	 Flammable Liquids 3, H226 Aquatic Chronic 2, H411 Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335 	_
78-40-0	Triethyl phosphate	_ 10-20%
577-11-7	Sodium dioctyl sulphosuccinate Eye Damage 1, H318 Skin Irritation 2, H315	_ 2.5-10%
9016-45-9	Alkylphenol polyglycolether Eye Damage 1, H318 Acute Toxicity - Oral 4, H302 Aquatic Chronic 3, H412	_ 2.5-10%

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(Cont	d. of page 2)
68412-53-3 Nonylphenyl (branched) polyoxyethylene ether phosphate	0-2.5%
 Eye Damage 1, H318 Aquatic Chronic 2, H411 Skin Irritation 2, H315 	
111-42-2 2,2'-iminodiethanol	0-1%
 Carcinogenicity 2, H351; Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 2, H373 Eye Damage 1, H318 Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315 Aquatic Chronic 3, H412 	
· Non-Dangerous components	
92-71-7 2,5-Diphenyloxazole (PPO)	0-2.5%
7732-18-5 water, distilled, conductivity or of similar purity	0-2.5%
13280-61-0 1,4-Bis-(2-methylstyryl)-benzene (bis-MSB)	0-2.5%
• Additional information: For the wording of the listed hazard phrases refer to section 16.	·

4 First-aid measures

· Description of first aid measures

• General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

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

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

Foam

Fire-extinguishing powder

Carbon dioxide

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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	(Contd. of page 3)
6 Accidenta	l release measures	
	ecautions, protective equipment and emergency procedures ative equipment. Keep unprotected persons away.	
	ital precautions:	
Do not allov	v to enter sewers/ surface or ground water.	
	ective authorities in case of seepage into water course or sewage system.	
	d material for containment and cleaning up: liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	taminated material as waste according to section 13.	
· Reference to	o other sections	
	7 for information on safe handling.	
	8 for information on personal protection equipment. 13 for disposal information.	
	ction Criteria for Chemicals	
• PAC-1:	, ,	
95-63-6	1,2,4-trimethylbenzene	140 ppm
78-40-0	Triethyl phosphate	23 mg/m^3
	Sodium dioctyl sulphosuccinate	5.7 mg/m^3
	2,5-Diphenyloxazole (PPO)	$2.5 mg/m^3$
	1,4-Bis-(2-methylstyryl)-benzene (bis-MSB)	12 mg/m^3
111-42-2	2,2'-iminodiethanol	$3 mg/m^3$
· PAC-2:		
	1,2,4-trimethylbenzene	360 ppm
	Triethyl phosphate	250 mg/m^3
	Sodium dioctyl sulphosuccinate	63 mg/m ³
	2,5-Diphenyloxazole (PPO)	27 mg/m ³
	1,4-Bis-(2-methylstyryl)-benzene (bis-MSB)	130 mg/m ³
111-42-2	2,2'-iminodiethanol	28 mg/m ³
· PAC-3:		
	1,2,4-trimethylbenzene	480 ppm
	Triethyl phosphate	320 mg/m ³
	Sodium dioctyl sulphosuccinate	380 mg/m ³
	2,5-Diphenyloxazole (PPO)	160 mg/m ³
	1,4-Bis-(2-methylstyryl)-benzene (bis-MSB)	790 mg/m ³
111-42-2	2,2'-iminodiethanol	130 mg/m ³

7 Handling and storage

· Handling:

• *Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.*

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Protect from heat and direct sunlight.
- · 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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- 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. Avoid contact with the eyes and skin.
- Avoid contact with the eyes and
- 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.

· Protection of hands:



Protective gloves

EN ISO 374-1/Type B

- Material of gloves
- Nitrile rubber, NBR

Recommended thickness of the material: $\geq 0.2 \text{ mm}$

Breakthrough time: > 120 *minutes*

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.
- Eye protection:



Tightly sealed goggles

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Information on basic physical	and chemical properties
General Information	
Appearance:	
Form:	Fluid
Color:	Colorless
Odor:	Aromatic
Change in condition	
Melting point/Melting range	: -44 ° C (-47 ° F)
Boiling point/Boiling range:	
Flash point:	50 °C (122 °F)
Auto igniting:	520 °C (968 °F)
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:	7.0 Vol %
Density at 20 °C (68 °F):	0.920 g/cm ³ (7.6774 lbs/gal)
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
• 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.
- $\cdot \textit{Incompatible materials: } No further relevant information available.$
- · 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:
---------------------------	------------------------------

ATE (Acute Toxicity Estimate)

Oral	LD50	>2,557 mg/kg
Dermal	LD50	4,157 mg/kg (Rabbit)
Inhalative	LC50/4 h	23.7 mg/l (Rat)

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05_63_61	,2,4-trimeth	vlhanzana		(
93-03-01 Oral		3,400 mg/kg (Rat)			
Dermal		3,160 mg/kg (Rabbit)			
		18 mg/l (Rat)			
	irritant effec				
		o skin and mucous me	nbranes.		
	e: Irritating e				
		sitizing effects known			
		cal information:		l	1
preparati		the jollowing dange	s according to internal	y approved calculation	meinous
Harmful	ons.				
Irritant					
	• ,				
-	enic categor				
		Agency for Research	on Cancer)		
	2,2'-iminod				
		ology Program)			
None of t	he ingredient	ts is listed.			
OSHA-C	a (Occupatio	onal Safety & Health	Administration)		
None of t					
itone oj i	he ingredient	ts is listed.			
	he ingredient cal inform				
Ecologi Toxicity	cal inform				
Ecologi Toxicity Aquatic t	cal inform	ation			
Ecologi Toxicity Aquatic t 95-63-6 1	cal inform oxicity: ',2,4-trimeth	ylbenzene	· fish)		
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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.*

IN North an	
· UN-Number · ADR, IMDG, IATA	1993
· UN proper shipping name · ADR · IMDG, IATA	1993 FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzo FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene)
· Transport hazard class(es)	
ADR	
· Class	3 Flammable liquids
Label	3
Class	3 Flammable liquids
Label	3
· Packing group · ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant: Special marking (ADR):	Yes Symbol (fish and tree)
Special precautions for user Hazard identification number (Kemler co EMS Number:	Warning: Flammable liquids ode): 30 F-E,S-E
Transport in bulk according to Annex II	of Not applicable.
MARPOL73/78 and the IBC Code	Not applicable.

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15 Regulatory information

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

78-40-0 Triethyl phosphate ACTIVE	· Sara	
Section 313 (Specific toxic chemical listings): 95-63-6 1,2,4-trimethylbenzene TSCA (Toxic Substances Control Act): 4CTIVI 95-63-6 1,2,4-trimethylbenzene 4CTIVI 78-40-0 Tricityly phosphate 4CTIVI 577-11-7 Sodium dioctyl sulphosuccinate 4CTIVI 68412-53-3 Nonylphenyl (branched) polyoxyethylene ether phosphate 4CTIVI 92-71-7 2,5-Diphenyloxazole (PPO) 4CTIVI 7732-18-5 water, distilled, conductivity or of similar purity 4CTIVI 13280-61-0 1,4-Bis-(2-methylstyryl)-benzene (bis-MSB) 4CTIVI 13280-61-0 1,4-Bis-(2-methylstyryl)-benzene 5 111-42-2 2,2'-iminodiethanol 5 • Chemicals known to cause cancer: None of the ingredients is listed. 5		
95-63-6 1,2,4-trimethylbenzene • TSCA (Toxic Substances Control Act): 95-63-6 95-63-6 1,2,4-trimethylbenzene ACTIVI 78-40-0 Tricithyl phosphate ACTIVI 78-40-0 Tricithyl phosphate ACTIVI 68412-53-3 Nonylphenyl (branched) polyoxyethylene ether phosphate ACTIVI 92-71-7 2,5-Diphenyloxazole (PPO) ACTIVI 7732-18-5 water, distilled, conductivity or of similar purity ACTIVI 13280-61-0 1,4-Bis-(2-methylstyryl)-benzene (bis-MSB) ACTIVI • Hazardous Air Pollutants	None of the ingredient is listed.	
• TSCA (Toxic Substances Control Act): 95-63-6 1,2,4-trimethylbenzene ACTIVI 78-40-0 Triethyl phosphate ACTIVI 78-40-0 Triethyl phosphate ACTIVI 577-11-7 Sodium dioctyl sulphosuccinate ACTIVI 68412-53-3 Nonylphenyl (branched) polyoxyethylene ether phosphate ACTIVI 92-71-7 2,5-Diphenyloxazole (PPO) ACTIVI 7732-18-5 water, distilled, conductivity or of similar purity ACTIVI 13280-61-0 1,4-Bis-(2-methylstyryl)-benzene (bis-MSB) ACTIVI Hazardous Air Pollutants 111-42-2 2,2'-iminodiethanol ACTIVI 111-42-2 2,2'-iminodiethanol Proposition 65 Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed. Carcinogenic categories • EPA (Environmental Protection Agency) 95-63-6 1,2,4-trimethylbenzene [1 95-63-6 1,2,4-trimethylbenzene [1 11-42-2 2,2'-iminodiethanol A: • TLV (Threshold Limit Value) 111-42-2	Section 313 (Specific toxic chemical listings):	
95-63-6 1,2,4-trimethylbenzene ACTIVI 78-40-0 Triethyl phosphate ACTIVI 787-40-0 Triethyl phosphate ACTIVI 577-11-7 Sodium dioctyl sulphosuccinate ACTIVI 68412-53-3 Nonylphenyl (branched) polyoxyethylene ether phosphate ACTIVI 92-71-7 2,5-Diphenyloxazole (PPO) ACTIVI 7732-18-5 water, distilled, conductivity or of similar purity ACTIVI 13280-61-0 1,4-Bis-(2-methylstyryl)-benzene (bis-MSB) ACTIVI Hazardous Air Pollutants 111-42-2 2,2'-iminodiethanol 'Incendis known to cause cancer: None of the ingredients is listed. Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Carcinogenic categories I • Chemicals known to cause developmental toxicity: None of the ingredients is listed. I • Chemicals known to cause developmental toxicity: None of the ingredients is listed. I	95-63-6 1,2,4-trimethylbenzene	
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Printing date 11/28/2023

Reviewed on 11/28/2023

Trade name: Filter-Count (Contd. of page 9) · Hazard pictograms GHS07 GHS02 GHS05 GHS09 · Signal word Danger · Hazard-determining components of labeling: 1,2,4-trimethylbenzene Sodium dioctyl sulphosuccinate Alkylphenol polyglycolether Nonylphenyl (branched) polyoxyethylene ether phosphate · Hazard statements H226 Flammable liquid and vapor. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. H411 Toxic to aquatic life with long lasting effects. · Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eve protection/face protection. 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. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. · 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.

· Relevant phrases

H226 Flammable liquid and vapor.

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- · Department issuing SDS: Quality Assurance, Environment, Safety & Health (QA/ESH)
- · Contact: SDS.Groningen@revvity.com
- Date of preparation / last revision 11/28/2023

(Contd. on page 11)

[•] US

Printing date 11/28/2023

Trade name: Filter-Count

Reviewed on 11/28/2023

(Contd. of page 10) · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) 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 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) 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 Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Inhalation 4: Acute toxicity - Category 4 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Damage 1: Serious eye damage/eye irritation - Category 1 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity - Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 • * Data compared to the previous version altered.