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Safety Data Sheet (SDS) Report

SDS number: 201101916SHA01

Applicant: GARDSTAR INDUSTRIAL CO.,LTD.
Fumin Industrial Park, No.128 Linggang Road, Luzhi Town,
Wuzhong District, Suzhou, China.

Issue Date: 2020-12-02

Sample Description:
The sample information was submitted and identified on client's behalf to be:

Product Name	:	Pump Zero Li-Ion Powered Air Pump
Physical State	:	Solid
Data Received	:	Nov 25, 2020
Data Reviewed	:	Dec 02, 2020

Service Requested:
Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated in accordance with requirements of OSHA HazCom Standard (2012), for details please refer to attached pages.

Authorized By:
On Behalf Of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai

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Safety Data Sheet

Pump Zero Li-Ion Powered Air Pump
GARDSTAR INDUSTRIAL CO.,LTD.

SDS number:**201101916SHA01**

Version No:**1.0**
According to OSHA HazCom Standard (2012) requirements

Issue Date:**02/12/2020**
GHS.USA.EN

SECTION 1 Identification

Product Identifier

Product name	Pump Zero Li-Ion Powered Air Pump
Chemical Name	Not Applicable
Proper shipping name	Lithium ion batteries contained in equipment including lithium ion polymer batteries
Other means of identification	Model:183564, 599320101, 184547

Recommended use of the chemical and restrictions on use

Relevant identified uses	For use with Fountainhead Group Sprayer tank

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Supplier name	**GARDSTAR INDUSTRIAL CO.,LTD.**
Address	Fumin Industrial Park, No.128 Linggang Road, Luzhi Town, Wuzhong District, Suzhou, China.
Telephone	0086-0512-65963844
Emergency telephone	0086-15850181840
Email	josie@evikasprayer.com
Importer name	The Fountainhead Group, Inc.
Address	23 Garden Street, New York Mills, NY, 13417, U.S.A.
Telephone	(315)-736-0037
Email	bwenzel@thefgi.com

Emergency phone number

Association / Organisation	**The Fountainhead Group, Inc.**
Emergency telephone numbers	**(800)-311-9903 (8:00-17:00 Monday-Friday)**

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

Not considered a Hazardous Substance by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Classified as Dangerous Goods for transport purposes.

Classification	Not Applicable

Label elements

Hazard pictogram(s)	Not Applicable
Signal word	**Not Applicable**

Hazard statement(s)

Not Applicable

Hazard(s) not otherwise classified

Not Applicable

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

Page 1 continued...

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7439-89-6	31.1	iron
NA	28.4	ternary materials
7782-42-5	17.1	graphite
7440-50-8	5.7	copper
105-58-8	4.7	diethyl carbonate
616-38-6	3.8	dimethyl carbonate
96-49-1	3.4	ethylene carbonate
7429-90-5	2.5	aluminium
9003-07-0	2	polypropylene
21324-40-3	1.3	lithium fluorophosphate

SECTION 4 First-aid measures

Description of first aid measures

Eye Contact	‣ Generally not applicable.
Skin Contact	‣ Generally not applicable.
Inhalation	‣ Generally not applicable.
Ingestion	‣ Generally not applicable.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Fire-fighting measures

Extinguishing media

Metal dust fires need to be smothered with sand, inert dry powders.
DO NOT USE WATER, CO2 or FOAM.

- Sand, dry powder extinguishers or other inerts should be used to smother dust fires.
- **DO NOT** use halogenated fire extinguishing agents.

Special hazards arising from the substrate or mixture

Fire Incompatibility	‣ Reacts with acids producing flammable / explosive hydrogen (H2) gas ‣ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result ‣ Keep dry ‣ **NOTE:** May develop pressure in containers; open carefully. Vent periodically.

Special protective equipment and precautions for fire-fighters

Fire Fighting	‣ Alert Fire Brigade and tell them location and nature of hazard. ‣ Wear breathing apparatus plus protective gloves in the event of a fire. Slight hazard when exposed to heat, flame and oxidisers.
Fire/Explosion Hazard	Combustible. Will burn if ignited. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) metal oxides other pyrolysis products typical of burning organic material.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Continued...

Minor Spills	▸ Clean up all spills immediately. ▸ Secure load if safe to do so.
Major Spills	▸ Clean up all spills immediately. ▸ Wear protective clothing, safety glasses, dust mask, gloves.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	▸ Limit all unnecessary personal contact. ▸ Wear protective clothing when risk of exposure occurs.
Other information	▸ Store in original containers. ▸ Keep containers securely sealed. ▸ Store away from incompatible materials.

Conditions for safe storage, including any incompatibilities

Suitable container	Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards. If repackaging is required ensure the article is intact and does not show signs of wear. No restriction on the type of containers. Packing as recommended by manufacturer.
Storage incompatibility	WARNING: Avoid or control reaction with peroxides.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	iron	Particulates not otherwise regulated (PNOR): Total dust	15 mg/m3	Not Available	Not Available	(f) All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is the same as the inert or nuisance dust limit of Table Z-3.
US NIOSH Recommended Exposure Limits (RELs)	graphite	Black lead, Mineral carbon, Plumbago, Silver graphite, Stove black [Note: Also see specific listing for Graphite (synthetic).]	2.5 (resp) mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z3	graphite	Graphite	15 mppcf	Not Available	Not Available	(Name ((Natural)))
US OSHA Permissible Exposure Levels (PELs) - Table Z1	graphite	Graphite, natural, respirable dust	Not Available	Not Available	Not Available	See Table Z-3
US ACGIH Threshold Limit Values (TLV)	graphite	Graphite (all forms except graphite fibers) (Respirable particulate matter)	2 mg/m3	Not Available	Not Available	Pneumoconiosis
US NIOSH Recommended Exposure Limits (RELs)	copper	Copper metal dusts, Copper metal fumes	1 mg/m3	Not Available	Not Available	[*Note: The REL also applies to other copper compounds (as Cu) except Copper fume.]
US OSHA Permissible Exposure Levels (PELs) - Table Z1	copper	Copper: Dusts and mists (as Cu)	1 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	copper	Copper: Fume (as Cu)	0.1 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	copper	Copper Fume, as Cu	0.2 mg/m3	Not Available	Not Available	Irr; GI; metal fume fever
US ACGIH Threshold Limit Values (TLV)	copper	Copper Dusts and mists, as Cu	1 mg/m3	Not Available	Not Available	Irr; GI; metal fume fever
US NIOSH Recommended Exposure Limits (RELs)	aluminium	Aluminium, Aluminum metal, Aluminum powder, Elemental aluminum	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	aluminium	Aluminum, metal (as Al): Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	aluminium	Aluminum, metal (as Al): Total dust	15 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	aluminium	Aluminum metal and insoluble compounds (Respirable particulate matter)	1 mg/m3	Not Available	Not Available	Pneumoconiosis; LRT irr; neurotoxicity

Emergency Limits

Continued...

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
iron	Iron	3.2 mg/m3	35 mg/m3	150 mg/m3
graphite	Carbon; (Graphite, 7782-42-5)	6 mg/m3	330 mg/m3	2,000 mg/m3
copper	Copper	3 mg/m3	33 mg/m3	200 mg/m3
diethyl carbonate	Diethyl carbonate	12 ppm	140 ppm	810 ppm
dimethyl carbonate	Dimethyl carbonate	11 ppm	120 ppm	700 ppm
ethylene carbonate	Glycol carbonate; (Ethylene carbonate)	30 mg/m3	330 mg/m3	2,000 mg/m3
polypropylene	Polypropylene	5.2 mg/m3	58 mg/m3	350 mg/m3
lithium fluorophosphate	Lithium hexafluorophosphate	7.5 mg/m3	83 mg/m3	500 mg/m3

Ingredient	Original IDLH	Revised IDLH
iron	Not Available	Not Available
graphite	1,250 mg/m3	Not Available
copper	100 mg/m3	Not Available
diethyl carbonate	Not Available	Not Available
dimethyl carbonate	Not Available	Not Available
ethylene carbonate	Not Available	Not Available
aluminium	Not Available	Not Available
polypropylene	Not Available	Not Available
lithium fluorophosphate	Not Available	Not Available

Exposure controls

Appropriate engineering controls	Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use. Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.
Personal protection	
Eye and face protection	No special equipment required due to the physical form of the product. ▸ Safety glasses with side shields. ▸ Chemical goggles.
Skin protection	See Hand protection below
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves. **NOTE:** ▸ The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
Body protection	See Other protection below
Other protection	▸ Overalls. ▸ Eyewash unit. No special equipment required due to the physical form of the product.

Respiratory protection

Respiratory protection not normally required due to the physical form of the product.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Black solid

Physical state	Solid	**Relative density (Water = 1)**	Not Available
Odour	Not Available	**Partition coefficient n-octanol / water**	Not Available
Odour threshold	Not Available	**Auto-ignition temperature (°C)**	Not Available
pH (as supplied)	Not Available	**Decomposition temperature**	Not Available
Melting point / freezing point (°C)	Not Available	**Viscosity (cSt)**	Not Available
Initial boiling point and boiling range (°C)	Not Available	**Molecular weight (g/mol)**	Not Available
Flash point (°C)	Not Available	**Taste**	Not Available
Evaporation rate	Not Available	**Explosive properties**	Not Available

Continued...

Flammability	Not Flammable	**Oxidising properties**	Not Available
Upper Explosive Limit (%)	Not Available	**Surface Tension (dyn/cm or mN/m)**	Not Available
Lower Explosive Limit (%)	Not Available	**Volatile Component (%vol)**	Not Available
Vapour pressure (kPa)	Not Available	**Gas group**	Not Available
Solubility in water	Insoluble	**pH as a solution (1%)**	Not Available
Vapour density (Air = 1)	Not Available	**VOC g/L**	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	▸ Presence of heat source and ignition source ▸ Unstable in the presence of incompatible materials. ▸ Product is considered stable.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Acute Toxicity	iron Oral (rat) LD50: 750 mg/kg[2] Oral (rat) LD50: 98600 mg/kg[2] graphite Oral (rat) LD50: >2000 mg/kg[2] copper Oral (mouse) LD50: =.7 mg/kg[2] Oral (rat) LD50: 5800 mg/kg[2] dimethyl carbonate Oral (mouse) LD50: 6000 mg/kg[2] polypropylene Oral (mouse) LD50: 3200 mg/kg[2] Oral (rat) LD50: >8000 mg/kg[2] lithium fluorophosphate Oral (rat) LD50: 50-300 mg/kg[1]
Skin Irritation/Corrosion	Based on available data, the classification criteria are not met.
Serious Eye Damage/Irritation	Based on available data, the classification criteria are not met.
Respiratory or Skin sensitisation	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductivity	Based on available data, the classification criteria are not met.
STOT - Single Exposure	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.
Legend:	*1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances*

Continued...

SECTION 12 Ecological information

Toxicity

Pump Zero Li-Ion Powered Air Pump	Based on available data, the classification criteria are not met.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
diethyl carbonate	HIGH	HIGH
dimethyl carbonate	HIGH	HIGH
ethylene carbonate	HIGH	HIGH
polypropylene	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
diethyl carbonate	LOW (LogKOW = 1.21)
dimethyl carbonate	LOW (LogKOW = 0.2336)
ethylene carbonate	LOW (LogKOW = -0.3388)
polypropylene	LOW (LogKOW = 1.6783)

Mobility in soil

Ingredient	Mobility
diethyl carbonate	LOW (KOC = 28.08)
dimethyl carbonate	LOW (KOC = 8.254)
ethylene carbonate	LOW (KOC = 9.168)
polypropylene	LOW (KOC = 23.74)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal	▸ **DO NOT** allow wash water from cleaning or process equipment to enter drains. ▸ It may be necessary to collect all wash water for treatment before disposal. ▸ Recycle wherever possible or consult manufacturer for recycling options. ▸ Consult State Land Waste Authority for disposal.

SECTION 14 Transport information

Marine Pollutant	NO

Land transport (DOT)

UN number	3481
UN proper shipping name	Lithium ion batteries contained in equipment including lithium ion polymer batteries
Transport hazard class(es)	Class: 9 Subrisk: Not Applicable
Packing group	Not Applicable
Environmental hazard	Not Applicable
Special precautions for user	Hazard Label: 9 Special provisions: 181, 422, A54

Air transport (ICAO-IATA / DGR)

UN number	3481
UN proper shipping name	Lithium ion batteries packed with equipment (including lithium ion polymer batteries); Lithium ion batteries contained in equipment (including lithium ion polymer batteries)
Transport hazard class(es)	ICAO/IATA Class: 9 ICAO / IATA Subrisk: Not Applicable ERG Code: 12FZ
Packing group	Not Applicable
Environmental hazard	Not Applicable

Continued...

Special precautions for user	Special provisions	A48 A88 A99 A154 A164 A181 A185 A206 A213; A88 A99 A154 A164 A181 A185 A206 A213
	Cargo Only Packing Instructions	967; 966
	Cargo Only Maximum Qty / Pack	35 kg
	Passenger and Cargo Packing Instructions	967; 966
	Passenger and Cargo Maximum Qty / Pack	5 kg
	Passenger and Cargo Limited Quantity Packing Instructions	Forbidden
	Passenger and Cargo Limited Maximum Qty / Pack	Forbidden

Sea transport (IMDG-Code / GGVSee)

UN number	3481
UN proper shipping name	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries)
Transport hazard class(es)	IMDG Class: 9 IMDG Subrisk: Not Applicable
Packing group	Not Applicable
Environmental hazard	Not Applicable
Special precautions for user	EMS Number: F-A , S-I Special provisions: 188 230 310 348 360 376 377 384 387 Limited Quantities: 0

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

iron is found on the following regulatory lists

US AIHA Workplace Environmental Exposure Levels (WEELs)
US DOE Temporary Emergency Exposure Limits (TEELs)
US OSHA Permissible Exposure Levels (PELs) - Table Z1
US OSHA Permissible Exposure Limits - Annotated Table Z-1
US OSHA Permissible Exposure Limits - Annotated Table Z-3
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US TSCA Chemical Substance Inventory - Interim List of Active Substances

graphite is found on the following regulatory lists

US ACGIH Threshold Limit Values (TLV)
US AIHA Workplace Environmental Exposure Levels (WEELs)
US DOE Temporary Emergency Exposure Limits (TEELs)
US NIOSH Recommended Exposure Limits (RELs)
US OSHA Permissible Exposure Levels (PELs) - Table Z1
US OSHA Permissible Exposure Levels (PELs) - Table Z3
US OSHA Permissible Exposure Limits - Annotated Table Z-1
US OSHA Permissible Exposure Limits - Annotated Table Z-3
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US TSCA Chemical Substance Inventory - Interim List of Active Substances
US TSCA Section 12(b) - List of Chemical Substances Subject to Export Notification Requirements

copper is found on the following regulatory lists

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants
US ACGIH Threshold Limit Values (TLV)
US AIHA Workplace Environmental Exposure Levels (WEELs)
US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
US CWA (Clean Water Act) - Priority Pollutants
US CWA (Clean Water Act) - Toxic Pollutants
US DOE Temporary Emergency Exposure Limits (TEELs)
US EPA Integrated Risk Information System (IRIS)
US EPCRA Section 313 Chemical List
US NIOSH Recommended Exposure Limits (RELs)
US OSHA Permissible Exposure Levels (PELs) - Table Z1
US OSHA Permissible Exposure Limits - Annotated Table Z-1
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US TSCA Chemical Substance Inventory - Interim List of Active Substances

diethyl carbonate is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US TSCA Chemical Substance Inventory - Interim List of Active Substances

dimethyl carbonate is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US TSCA Chemical Substance Inventory - Interim List of Active Substances

ethylene carbonate is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US TSCA Chemical Substance Inventory - Interim List of Active Substances

aluminium is found on the following regulatory lists

Continued...

US ACGIH Threshold Limit Values (TLV)	US NIOSH Recommended Exposure Limits (RELs)
US ACGIH Threshold Limit Values (TLV) - Carcinogens	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US AIHA Workplace Environmental Exposure Levels (WEELs)	US OSHA Permissible Exposure Limits - Annotated Table Z-1
US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US Department of Homeland Security (DHS) - Chemical Facility Anti-Terrorism Standards (CFATS) - Chemicals of Interest	US TSCA Chemical Substance Inventory - Interim List of Active Substances
US EPCRA Section 313 Chemical List	

polypropylene is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List	US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US DOE Temporary Emergency Exposure Limits (TEELs)	US TSCA Chemical Substance Inventory - Interim List of Active Substances

lithium fluorophosphate is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)	US TSCA Chemical Substance Inventory - Interim List of Active Substances
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	No
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
Copper	5000	2270

State Regulations

US. California Proposition 65

None Reported

SECTION 16 Other information

Revision Date	02/12/2020
Initial Date	02/12/2020

Other information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

Definitions and abbreviations

PC—TWA: Permissible Concentration-Time Weighted Average
PC—STEL: Permissible Concentration-Short Term Exposure Limit

Continued...

IARC: International Agency for Research on Cancer
ACGIH: American Conference of Governmental Industrial Hygienists
STEL: Short Term Exposure Limit
TEEL: Temporary Emergency Exposure Limit。
IDLH: Immediately Dangerous to Life or Health Concentrations
OSF: Odour Safety Factor
NOAEL :No Observed Adverse Effect Level
LOAEL: Lowest Observed Adverse Effect Level
TLV: Threshold Limit Value
LOD: Limit Of Detection
OTV: Odour Threshold Value
BCF: BioConcentration Factors
BEI: Biological Exposure Index