

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 1 of 15

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Solder paste for soft soldering (lead)

Uses advised against

any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: Balver Zinn Josef Jost GmbH & Co. KG
 Street: Blintroper Weg 11
 Place: D-58802 Balve
 Telephone: +49 2375 915-0
 Responsible Department: cia@BalverZinn.com
 Telefax: +49 2375 915-114

1.4. Emergency telephone number: +49 (0) 700 24 112 112 (Contract-ID:BZW)
 from USA/Canada pls call 011 49 700 24 112 112

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Hazard categories:
 Serious eye damage/eye irritation: Eye Dam. 1
 Reproductive toxicity: Repr. 1A
 Reproductive toxicity: Lact.
 Specific target organ toxicity - repeated exposure: STOT RE 1
 Hazardous to the aquatic environment: Aquatic Acute 1
 Hazardous to the aquatic environment: Aquatic Chronic 1
 Hazard Statements:
 Causes serious eye damage.
 May damage fertility. May damage the unborn child.
 May cause harm to breast-fed children.
 Causes damage to organs through prolonged or repeated exposure.
 Very toxic to aquatic life.
 Very toxic to aquatic life with long lasting effects.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

lead powder [particle diameter < 1 mm]
 2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol
 monohexyl ether, hexyl carbitol

Signal word: Danger**Pictograms:****Hazard statements**

H318 Causes serious eye damage.
 H360FD May damage fertility. May damage the unborn child.

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 2 of 15

H362	May cause harm to breast-fed children.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P263	Avoid contact during pregnancy and while nursing.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Special labelling of certain mixtures

EUH208	Contains N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction. Restricted to professional users.
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2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

CAS No	Chemical name	EC No	Index No	REACH No	Quantity
7440-31-5	tin				50-60 %
		231-141-8		01-2119486474-28	
7439-92-1	lead powder [particle diameter < 1 mm]				30-40 %
		231-100-4	082-013-00-1	01-2119513221-59	
		Repr. 1A, Lact., STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H360FD H362 H372 H400 H410			
65997-06-0	Rosin, hydrogenated				3-5 %
		266-041-3			
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monohexyl ether, hexyl carbitol				3-5 %
		203-988-3	603-175-00-7	01-2119945815-28	
		Acute Tox. 4, Eye Dam. 1; H312 H318			
7440-22-4	silver				<2 %
		231-131-3		01-2119555669-21	

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 3 of 15

7440-31-5	231-141-8	tin	50-60 %
		inhalation: LC50 = (>4,75) mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
7439-92-1	231-100-4	lead powder [particle diameter < 1 mm]	30-40 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg Repr. 1A; H360D: >= 0,03 - 100 STOT RE 1; H372: >= 0,5 - 100 M akut; H400: M=10 M chron.; H410: M=1	
112-59-4	203-988-3	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monoethyl ether, hexyl carbitol	3-5 %
		dermal: LD50 = (2764) mg/kg	
7440-22-4	231-131-3	silver	<2 %
		inhalation: LC50 = >5,16 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	

Further Information

lead powder [particle diameter < 1 mm], CAS: 7439-92-1: This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Change contaminated clothing.

First aider: Pay attention to self-protection!

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Get medical advice/attention.

After contact with skin

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap. Get medical advice/attention.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

refer to chapter 2 and 11.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Sand
Extinguishing powder
D -powder

Unsuitable extinguishing media

Extinguishing media which must not be used for safety reasons:
Water
High power water jet

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 4 of 15

Water spray jet

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Metal oxide smoke, toxic.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.
In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Use water spray jet to protect personnel and to cool endangered containers.
Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General measures**

Ventilate affected area. Remove persons to safety.
Avoid exposure. Do not breathe smoke. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.
Wear personal protection equipment. (See section 8.)
Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

For non-emergency personnel

Wear personal protection equipment.

For emergency responders

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up**For containment**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

Other information

Take up mechanically.
Treat the recovered material as prescribed in the section on waste disposal.
Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Technical ventilation of workplace

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 5 of 15

Avoid exposure - obtain special instructions before use.

Do not breathe smoke. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

The usual precautions for handling chemicals should be considered.

Keep away from food, drink and animal feedingstuffs.

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Keep/Store only in original container.

Hints on joint storage

Do not store together with: Explosives. Gas. Oxidizing liquids. Oxidizing solids. Self-reactive substances and mixtures. Organic peroxides. Ammonium nitrate and preparations containing ammonium nitrate. Combustible toxic substances. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Protect against: UV-radiation/sunlight. heat. Humidity frost.

storage temperature: refer to specifications.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
-	Lead other than lead alkyls	-	0.15		TWA (8 h)	CLAW
7440-22-4	Silver, metallic	-	0.1		TWA (8 h)	WEL
-	Tin compounds, inorganic, except SnH ₄ , (as Sn)	-	2		TWA (8 h)	WEL
		-	4		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
7439-92-1	Lead (any other employee)	lead	35 µg/dl	blood	Random

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
7440-31-5	tin			
Consumer DNEL, long-term		inhalation	systemic	3,476 mg/m ³

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 6 of 15

Consumer DNEL, acute	inhalation	systemic	3,476 mg/m ³
Worker DNEL, long-term	inhalation	systemic	11,75 mg/m ³
Worker DNEL, acute	inhalation	systemic	11,75 mg/m ³
Consumer DNEL, long-term	dermal	systemic	80 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	133,3 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	80 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	133,3 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	80 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	80 mg/kg bw/day
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monohexyl ether, hexyl carbitol		
Worker DNEL, long-term	inhalation	systemic	16,3 mg/m ³
Worker DNEL, long-term	dermal	systemic	50 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	4,1 mg/m ³
Consumer DNEL, long-term	dermal	systemic	25 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	1,25 mg/kg bw/day
7440-22-4	silver		
Worker DNEL, long-term	inhalation	systemic	0,1 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	0,04 mg/m ³
Consumer DNEL, long-term	oral	systemic	1,2 mg/kg bw/day

PNEC values

CAS No	Substance	Value
Environmental compartment		Value
7439-92-1	lead powder [particle diameter < 1 mm]	
Freshwater		0,0031 mg/l
Marine water		0,0035 mg/l
Freshwater sediment		174 mg/kg
Marine sediment		164 mg/kg
Secondary poisoning		10,9 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,1 mg/l
Soil		212 mg/kg
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monohexyl ether, hexyl carbitol	
Freshwater		1,963 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0,196 mg/l
Freshwater sediment		10,7 mg/kg
Marine sediment		1,07 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,995 mg/kg
7440-22-4	silver	
Freshwater		0,00004 mg/l

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 7 of 15

Marine sediment	438,13 mg/kg
Freshwater sediment	438,13 mg/kg
Marine water	0,00086 mg/l
Micro-organisms in sewage treatment plants (STP)	0,025 mg/l
Soil	1,41 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Technical ventilation of workplace
Process within closed systems.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Recommended eye protection brand: Tightly sealed safety glasses. (BS/EN 166)

Hand protection

Wear suitable gloves. (BS EN 374)

for coarse soldering works: heat insulating.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Protective clothing (heat-resistant)

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Insufficient ventilation

Release of: Product.

Exceeding exposure limit values

Suitable respiratory protective equipment:

Combination filtering device (EN 14387); Type : A-P3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

This material and its container must be disposed of in a safe way.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: pasty
Colour: metallic, grey
Odour: characteristic.

Changes in the physical state

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 8 of 15

Melting point/freezing point:	179-183 °C
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined
Explosive properties	
none	
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Decomposition temperature:	not determined
Oxidizing properties	
none.	
pH-Value:	not determined
Viscosity / dynamic: (at 20 °C)	not determined
Viscosity / kinematic: (at 20 °C)	not determined
Flow time:	not determined
Water solubility:	not miscible
Solubility in other solvents	
not determined	
Vapour pressure: (at 20 °C)	not determined
Density:	not determined
Relative vapour density:	not determined

9.2. Other information**Other safety characteristics**

Solid content: not determined

Further Information**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Reacts with : Strong acid, Oxidising agent

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis.

10.6. Hazardous decomposition productsCan be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Metal oxide smoke, toxic.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation**

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 9 of 15

Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7440-31-5	tin				
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	inhalation (4 h) aerosol	LC50 (>4,75) mg/l	Rat	ECHA Dossier	
7439-92-1	lead powder [particle diameter < 1 mm]				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2003)	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2003)	OECD Guideline 402
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monohexyl ether, hexyl carbitol				
	dermal	LD50 (2764) mg/kg	Rabbit	REACH Dossier	OECD Guideline 402
7440-22-4	silver				
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	inhalation (4 h) aerosol	LC50 >5,16 mg/l	Rat	ECHA Dossier	

Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Contains N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.

May cause sensitisation especially in sensitive humans.

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility. May damage the unborn child. (lead powder [particle diameter < 1 mm])

May cause harm to breast-fed children. (lead powder [particle diameter < 1 mm])

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

bis(2-(2-methoxyethoxy)ethyl) ether (CAS-No.: 143-24-8):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.

Literature information: ECHA Dossier

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (lead powder [particle diameter < 1 mm])

bis(2-(2-methoxyethoxy)ethyl) ether (CAS-No.: 143-24-8):

Subacute oral toxicity

Exposure time: 28d

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 10 of 15

Species: Wistar Rat.
 Method: OECD Guideline 407
 Result: NOEL = 250 mg/kg(bw)/day
 Literature information: ECHA Dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available.

SECTION 12: Ecological information**12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
7439-92-1	lead powder [particle diameter < 1 mm]					
	Acute fish toxicity	LC50 mg/l	1,17	96 h	Oncorhynchus mykiss	Publication (1976) Acute bioassays
	Acute algae toxicity	ErC50 mg/l	0,123	72 h	Pseudokirchneriella subcapitata	Study report (2008) OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	0,1043	48 h	Ceriodaphnia dubia	Study report (2010) other: USEP
	Fish toxicity	NOEC mg/l	0,23	28 d	Cyprinodon variegatus	Study report (2010) other: ASTM Method E1241 2003
	Crustacea toxicity	NOEC mg/l	0,1433	126 d	other aquatic worm: Neanthes arenaceodentata	Study report (2007) other: PERL Protocol No. 3690NA-CSR120 d-
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monoethyl ether, hexyl carbitol					
	Acute fish toxicity	LC50	200 mg/l	96 h	Pimephales sp.	REACH Dossier OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	198,31	72 h	Desmodesmus subspicatus	REACH Dossier DIN 38412, part L9
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	REACH Dossier OECD Guideline 202

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monoethyl ether, hexyl carbitol			
	OECD Guideline 301 A	>90	15	REACH Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monoethyl ether, hexyl carbitol	1,7

BCF

CAS No	Chemical name	BCF	Species	Source
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Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 11 of 15

7439-92-1	lead powder [particle diameter < 1 mm]	40000	Asellus meridianus	Freshwater Biology 7
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12.4. Mobility in soil

No data available.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150202 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; absorbents, filter materials, wiping cloths and protective clothing; absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

Recommended cleaning agent: Water, if necessary together with cleansing agents.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number:**

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lead powder [particle diameter < 1 mm])

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 12 of 15

Tunnel restriction code: -

Inland waterways transport (ADN)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lead powder [particle diameter < 1 mm])
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Classification code: M6
 Special Provisions: 274 335 375 601
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lead powder [particle diameter < 1 mm])
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Marine pollutant: YES
 Special Provisions: 274, 335, 969
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lead powder [particle diameter < 1 mm])
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Special Provisions: A97 A158 A197 A215
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y964
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 964
 IATA-max. quantity - Passenger: 450 L
 IATA-packing instructions - Cargo: 964
 IATA-max. quantity - Cargo: 450 L

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 13 of 15

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: lead powder [particle diameter < 1 mm]

14.6. Special precautions for user

See section 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
lead powder [particle diameter < 1 mm]

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Additional informationSafety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)
The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No (mixture): 3, 63**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe technical data sheet.

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

lead powder [particle diameter < 1 mm]

2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monohexyl ether, hexyl carbitol

SECTION 16: Other information**Changes**

Rev. 1.00; Initial release 11.05.2021

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 14 of 15

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Eye Dam. 1; H318	Calculation method
Repr. 1A; H360FD	Calculation method
Lact.; H362	Calculation method
STOT RE 1; H372	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

Relevant H and EUH statements (number and full text)

H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H360FD	May damage fertility. May damage the unborn child.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Safety Data Sheet

according to UK REACH Regulation

JEAN-151 Sn63Pb37 T3/T4; JEAN-151 Sn62Pb36Ag2 T3/T4

Revision date: 11.05.2021

Product code: 950711

Page 15 of 15

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)