

٦

# ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name	Perovskite Precursor Ink for Air Processing
REACH Registration No.	Not applicable.
1.2 Relevant identified uses of the sub	ostance or mixture and uses advised against
Identified Use(s)	PC21 Laboratory chemicals, Research and development use only

### 1.3 Details of the supplier of the safety data sheet

Emergency Phone #	+44 (0) 20 3885 0382 (CHEMTREC)	
1.4 Emergency telephone number		
Office hours	08:00 - 17:00	
E-mail	info@ossila.com	
Telephone:	+441142999180	
Postal code	S4 7WB, UK	
	Sheffield	
	Windsor Street	
Address of Supplier	Solpro Business Park	
Company Identification	Ossila Limited	

Other Regions	Emergency Phone Number (CHEMTREC)
Europe, Middle East, Africa	+44 20 3885 0382
North America	+1 703 527 3887
Central America	+52 55 8526 4930
South America	+55 11 4349 1359
Asia, India, and Oceania	+65 3163 8374

#### SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or	mixture	
Regulation (EC) No. 1272/2008 (CLP)	Flam. Liq. 3: Flammable liquid and vapour Acute Tox. 4: Harmful if swallowed. Acute Tox. 4: Harmful in contact with skin. Acute Tox. 4: Harmful if inhaled Eye Irrit. 2: Causes serious eye irritation Repr. 1A: May damage fertility or the unborn child STOT RE 2: May cause damage to organs through prolonged or repeated exposure Aquatic Acute 1: Very toxic to aquatic life Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects	
2.2 Label elements		
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) Perovskite Precursor Ink for Air Processing	
Hazard Pictogram(s)	GHS02 GHS07 GHS08 GHS09	
Signal Word(s)	Danger	
Hazard Statement(s)	H226: Flammable liquid and vapour H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled H319: Causes serious eye irritation H360Df: May damage the unborn child. Suspected of damaging fertility H373: May cause damage to organs through prolonged or repeated exposure H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects	
Precautionary Statement(s)	<ul> <li>P201: Obtain special instructions before use.</li> <li>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P273: Avoid release to the environment.</li> <li>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P308 + P313: IF exposed or concerned: Get medical advice/attention.</li> </ul>	



#### P501: Dispose of contents/container to an approved waste disposal plant.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 2.4 Additional Information

Not applicable.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substances

This product is a mixture.

Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
N,N-dimethylformamide Index No. 616-001-00-X	68-12-2	200-679-5	>= 60 - <65	Flam. Liq. 3 H226 Repr. 1B H360D Acute Tox. 4 H332
Component included in the Candidate List of Substrances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)				Acute Tox. 4 H312 Eye Irrit. 2 H319
Methylammonium iodide	14965-49-2	239-037-4	>= 20 - <25	Acute Tox. 4 H302 Eye Irrit. 2 H319 Skin Irrit. 2 H315 STOT SE 3 H335
Lead dichloride Index No. 082-001-00-6	7758-95-4	231-845-5	>= 10 - <15	Repr. 1A H360Df Acute Tox. 4 H332 Acute Tox. 4 H302 Stot RE 2 H373 (C $\geq$ 0,5 %) Aquatic Acute 1 H400 Aquatic Chronic 1 H410

#### **SECTION 4: FIRST AID MEASURES**

4.1 Description of first aid measures	
General Advice	First aiders should ensure they have taken adequate steps to protect themselves
	from exposure (see Section 8 for recommended personal protection equipment)
	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If not breathing give
Skin Contact	artificial respiration. Call a POISON CENTER or doctor/physician. Wash with soap and flush with copious amounts of water for at least 15 minutes.
Skill Colliact	Remove contaminated clothing and shoes. Call a POISON CENTER or
	doctor/physician.
Eye Contact	Flush with copious amounts of water for at least 15 minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or
1	doctor/physician.
Ingestion	Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. Do NOT
4.2 Most important symptoms and effe	induce vomiting.
4.2 most important symptoms and ene	Lead salts have been reported to cross the placenta and to induce embryo- and
	feto- mortality. They also have teratogenic effect in some animal species. No
	teratogenic effects have been reported with exposure to organometallic lead
	compounds. Adverse effects of lead on human reproduction, embryonic and fetal
	development, and postnatal (e.g., mental) development have been reported.
	Excessive exposure can affect blood, nervous, and digestive systems. The
	synthesis of hemoglobin is inhibited and results in anemia. If left untreated,
	neuromuscular dysfunction, possible paralysis, and encephalopathy can result.
	Additional symptoms of overexposure include: joint and muscle pain, weakness of
	the extensor muscles (frequently the hand and wrist), headache, dizziness,
	abdominal pain, diarrhea, constipation, nausea, vomiting, blue line on the gums, insomnia, and metallic taste. High body levels produce increased cerebrospinal
	pressure, brain damage, and stupor leading to coma and often death.
	pressure, brain damage, and supprimedung to coma and onen death.
	Warning: intolerance for alcohol can occur up to 4 days after dimethylformamide
	exposure. N,Ndimethylformamide is considered to be a potent liver toxin., Vomiting,
	Diarrhoea, Abdominal pain, To the best of our knowledge, the chemical, physical,
	and toxicological properties have not been thoroughly investigated.
4.3 Indication of any immediate medica	al attention and special treatment needed
	Treat symptomatically.



SECTION 5: FIREFIGHTING MEASURES		
5.1 Extinguishing media		
Suitable Extinguishing media	As appropriate for surrounding fire.	
Unsuitable extinguishing media	As appropriate for surrounding fire.	
5.2 Special hazards arising from the		
	Carbon oxides	
	Nitrogen oxides (NOx)	
	Hydrogen chloride gas	
	Lead oxides	
5.3 Advice for firefighters		
	Fire fighters should wear complete protective clothing including self-contained	
	breathing apparatus.	
SECTION 6: ACCIDENTAL RELEASE	MEASURES	
6.1 Personal precautions, protective	equipment and emergency procedures	
	Follow safe handling advice and personal protective equipment recommendations	
	(as per section 8). Provide adequate ventilation.	
6.2 Environmental precautions		
	Avoid release to the environment.	
6.3 Methods and material for contain		
	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand,	
	earth, diatomaceous earth, vermiculite) and transfer to a container for disposal	
	according to local / national regulations (see section 13).	
6.4 Reference to other sections		
	See Also Section 8, 13.	
SECTION 7: HANDLING AND STORAG	ЭЕ	
7.1 Precautions for safe handling		
Advice on safe handling	Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-	
, lattee en eale hanaling	ventilated area. Wear protective clothing as per section 8.	
Hygiene measures	Keep away from food and drink. Wash hands after handling, before breaks, and at	
	the end of workday.	
7.2 Conditions for safe storage, inclu		
	Store in a well-ventilated place. Keep container tightly closed. Store locked up.	
Storage temperature	Ambient.	
Storage life	Product is air and moisture sensitive. Handle and store under inert gas.	
Incompatible materials	None known.	
7.3 Specific end use(s)	HORO MIOWIL	
	Apart from the upper mentioned in section 1.2 per other encoding upper are stimulated	

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

UK - EH40 Workplace Exposure Limits (WEL).

Occupational Exposure Lim	its					
SUBSTANCE.	CAS No.	LTEL (8 hr TWA	LTEL (8 hr TWA	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
		ppm)	mg/m³)	,	,	
N,N-Dimethylformamide	68-12-2	5	15	10	30	
Lead dichloride	7758-95-4		0.15			

Region EU

Source EU Occupational Exposure Limits UK Workplace Exposure Limits EH40/2005 (Third edition, published 2018) United Kingdom

### Chemical Agents Directive - Annex II: Binding biological limit values

<b>Biological Occupationa</b>	I Exposure Limits			
SUBSTANCE.	CAS No.	Parameters	Value	Biological specimen
Lead dichloride	7758-95-4	Lead	0.7 mg/l	Blood
	Remarks	using absorption Medical survei air is greater th 40 hours per w blood is measu monitoring and article 12, para	on spectrometry or a llance is carried out i han 0,075 mg/m3, ca veek, or - a blood-lea ured in individual wor I medical surveillance graph 2. These inclu	measuring the blood-lead level (PbB) method giving equivalent results., f: - exposure to a concentration of lead in lculated as a time-weighted average over d level greater than 40 µg Pb/100 ml kers., Practical guidelines for biological e must be developed in accordance with de recommendations of biological and biological monitoring strategies.

<sup>8.1.1</sup> Occupational Exposure Limits



8.2 Exposure controls	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation and/or exhaust. A washing facility/water for eye and skin cleaning purposes should be present.
8.2.2. Personal protection equipment	
Eye Protection	Wear eye protection with side protection tested and approved under appropriate government standards such as EN166 (EU).
Hand protection	Handle with gloves. Gloves must be inspected prior to use and proper glove removal techniques should be used. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Body protection	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full- face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls
Thermal hazards	None known.
8.2.3. Environmental Exposure Controls	Avoid release to the environment.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and	chemical properties
Physical State	Liquid.
Colour	Yellow.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	-61.4-61 °C (DMF)
Initial boiling point and boiling range	152-153 °C (DMF)
Flammability	Not known.
Lower and upper explosion limit	Not known.
Flash Point	57.5 °C – closed cup (DMF)
Auto-ignition temperature (°C)	Not known.
Decomposition temperature (°C)	Not known.
рН	Not known.
Kinematic viscosity	Not known.
Solubility(ies)	Solubility (Water): ca. 1 000 g/L (DMF)
	Solubility (Other): alcohol, ether, acetone (> 1 000 - <= 10 000 mg/L) (DMF)
Partition coefficient: n-octanol/water (log	logPow : -0.85 (DMF)
value)	
Vapour pressure	3.77 hPA (20 °C) (DMF)
Density	0.94 g/cm3 at 20 °C (DMF)
Relative density	Not known.
Relative vapour density	Not known.
Particle characteristics	Not known.
9.2 Other information	
	None.

#### SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	
10.2 Chemical Stability	None anticipated.
10.2 Chemical Stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reaction	S
•	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition produ	cts
	In the event of fire: see Section 5

# SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute toxicity - Ingestion	No data available.
Acute toxicity - Skin Contact	No data available.
Acute toxicity - Inhalation	No data available.
Skin corrosion/irritation	No data available.
Serious eye damage/irritation	No data available.
Skin sensitization data	No data available.
Respiratory sensitization data	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available.



Reproductive toxicity	No data available.	
Lactation	No data available.	
STOT - single exposure	No data available.	
STOT - repeated exposure	No data available.	
Aspiration hazard	No data available.	
11.2 Information on other hazards		
11.2.1 Endocrine disrupting properties		
	None known.	
11.2.2. Information on other hazards		
	None known.	
SECTION 12: ECOLOGICAL INFORMATION		
12.1 Toxicity		
	No data available.	
Toxicity - Aquatic invertebrates	Not known.	
Toxicity - Fish	Not known.	
Toxicity - Algae	Not known.	
Toxicity - Sediment Compartment	Not known.	
Toxicity - Terrestrial Compartment	Not known.	
12.2 Persistence and Degradation		
	Not known.	
12.3 Bioaccumulative potential		
	Not known.	
12.4 Mobility in soil		
	Not known.	
12.5 Results of PBT and vPvB assess		
	This substance/mixture contains no components considered to be either persistent,	
	bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	
12.6 Endocrine disrupting properties		
12.0 Endocrine disrupting properties	Not known.	
12.7 Other adverse effects		
	Not known.	
CECTION 42. DICDOCAL CONCIDEDA	TIONS	
SECTION 13: DISPOSAL CONSIDERA	TIONS	
SECTION 13: DISPOSAL CONSIDERA 13.1 Waste treatment methods		
	Dispose of contents in accordance with local, state or national legislation. Recycle	
	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by	
	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or	
13.1 Waste treatment methods	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by	
	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator.	
13.1 Waste treatment methods	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or	
13.1 Waste treatment methods	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation.	
<ul><li>13.1 Waste treatment methods</li><li>13.2 Additional Information</li></ul>	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation.	
13.1 Waste treatment methods         13.2 Additional Information         SECTION 14: TRANSPORT INFORMATION	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation.	
13.1 Waste treatment methods         13.2 Additional Information         SECTION 14: TRANSPORT INFORMATION         14.1 UN number	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation.	
13.1 Waste treatment methods 13.2 Additional Information SECTION 14: TRANSPORT INFORMAT 14.1 UN number UN No.	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation.	
13.1 Waste treatment methods 13.2 Additional Information SECTION 14: TRANSPORT INFORMAT 14.1 UN number UN No. 14.2 UN proper shipping name	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation.	
<ul> <li>13.1 Waste treatment methods</li> <li>13.2 Additional Information</li> <li>SECTION 14: TRANSPORT INFORMAT</li> <li>14.1 UN number</li> <li>UN No.</li> <li>14.2 UN proper shipping name</li> <li>UN proper shipping name</li> </ul>	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation.	
<ul> <li>13.1 Waste treatment methods</li> <li>13.2 Additional Information</li> <li>SECTION 14: TRANSPORT INFORMAT</li> <li>14.1 UN number UN No.</li> <li>14.2 UN proper shipping name UN proper shipping name</li> <li>14.3 Transport hazard class(es)</li> </ul>	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. <b>FION</b> 1992 Flammable liquid, toxic, n.o.s. (N,N-dimethylformamide, lead dichloride solution)	
<ul> <li>13.1 Waste treatment methods</li> <li>13.2 Additional Information</li> <li>SECTION 14: TRANSPORT INFORMATION</li> <li>14.1 UN number</li> <li>UN No.</li> <li>14.2 UN proper shipping name</li> <li>UN proper shipping name</li> <li>14.3 Transport hazard class(es)</li> <li>ADR/RID</li> </ul>	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. <b>TION</b> 1992 Flammable liquid, toxic, n.o.s. (N,N-dimethylformamide, lead dichloride solution) 3 (6.1)	
<ul> <li>13.1 Waste treatment methods</li> <li>13.2 Additional Information</li> <li>SECTION 14: TRANSPORT INFORMAT</li> <li>14.1 UN number UN No.</li> <li>14.2 UN proper shipping name UN proper shipping name</li> <li>14.3 Transport hazard class(es) ADR/RID IMDG IATA</li> <li>14.4 Packing group</li> </ul>	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. <b>FION</b> 1992 Flammable liquid, toxic, n.o.s. (N,N-dimethylformamide, lead dichloride solution) 3 (6.1) 3 (6.1) 3 (6.1)	
<ul> <li>13.1 Waste treatment methods</li> <li>13.2 Additional Information</li> <li>SECTION 14: TRANSPORT INFORMAT</li> <li>14.1 UN number UN No.</li> <li>14.2 UN proper shipping name UN proper shipping name</li> <li>14.3 Transport hazard class(es) ADR/RID IMDG IATA</li> <li>14.4 Packing group Packing group</li> </ul>	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. <b>TION</b> 1992 Flammable liquid, toxic, n.o.s. (N,N-dimethylformamide, lead dichloride solution) 3 (6.1) 3 (6.1)	
<ul> <li>13.1 Waste treatment methods</li> <li>13.2 Additional Information</li> <li>SECTION 14: TRANSPORT INFORMAT</li> <li>14.1 UN number UN No.</li> <li>14.2 UN proper shipping name UN proper shipping name</li> <li>14.3 Transport hazard class(es) ADR/RID IMDG IATA</li> <li>14.4 Packing group Packing group</li> <li>14.5 Environmental hazards</li> </ul>	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. <b>TION</b> 1992 Flammable liquid, toxic, n.o.s. (N,N-dimethylformamide, lead dichloride solution) 3 (6.1) 3 (6.1) 3 (6.1) III	
<ul> <li>13.1 Waste treatment methods</li> <li>13.2 Additional Information</li> <li>SECTION 14: TRANSPORT INFORMAT</li> <li>14.1 UN number UN No.</li> <li>14.2 UN proper shipping name UN proper shipping name</li> <li>14.3 Transport hazard class(es) ADR/RID IMDG IATA</li> <li>14.4 Packing group Packing group</li> <li>14.5 Environmental hazards Environmental hazards</li> </ul>	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. <b>FION</b> 1992 Flammable liquid, toxic, n.o.s. (N,N-dimethylformamide, lead dichloride solution) 3 (6.1) 3 (6.1) 3 (6.1)	
<ul> <li>13.1 Waste treatment methods</li> <li>13.2 Additional Information</li> <li>SECTION 14: TRANSPORT INFORMAT</li> <li>14.1 UN number UN No.</li> <li>14.2 UN proper shipping name UN proper shipping name</li> <li>14.3 Transport hazard class(es) ADR/RID IMDG IATA</li> <li>14.4 Packing group Packing group</li> <li>14.5 Environmental hazards</li> <li>Environmental hazards</li> <li>14.6 Special precautions for user</li> </ul>	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. <b>TION</b> 1992 Flammable liquid, toxic, n.o.s. (N,N-dimethylformamide, lead dichloride solution) 3 (6.1) 3 (6.1) 3 (6.1) III Classified as a Marine Pollutant.	
<ul> <li>13.1 Waste treatment methods</li> <li>13.2 Additional Information</li> <li>SECTION 14: TRANSPORT INFORMAT</li> <li>14.1 UN number UN No.</li> <li>14.2 UN proper shipping name UN proper shipping name</li> <li>14.3 Transport hazard class(es) ADR/RID IMDG IATA</li> <li>14.4 Packing group Packing group</li> <li>14.5 Environmental hazards Environmental hazards</li> <li>14.6 Special precautions for user Special precautions for user</li> </ul>	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. <b>TION</b> 1992 Flammable liquid, toxic, n.o.s. (N,N-dimethylformamide, lead dichloride solution) 3 (6.1) 3 (6.1) 3 (6.1) III Classified as a Marine Pollutant. Not known.	
<ul> <li>13.1 Waste treatment methods</li> <li>13.2 Additional Information</li> <li>SECTION 14: TRANSPORT INFORMAT</li> <li>14.1 UN number UN No.</li> <li>14.2 UN proper shipping name UN proper shipping name</li> <li>14.3 Transport hazard class(es) ADR/RID IMDG IATA</li> <li>14.4 Packing group Packing group</li> <li>14.5 Environmental hazards</li> <li>Environmental hazards</li> <li>14.6 Special precautions for user</li> </ul>	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. <b>TION</b> 1992 Flammable liquid, toxic, n.o.s. (N,N-dimethylformamide, lead dichloride solution) 3 (6.1) 3 (6.1) 3 (6.1) III Classified as a Marine Pollutant. Not known. <b>ding to IMO instruments</b>	
<ul> <li>13.1 Waste treatment methods</li> <li>13.2 Additional Information</li> <li>SECTION 14: TRANSPORT INFORMAT</li> <li>14.1 UN number UN No.</li> <li>14.2 UN proper shipping name UN proper shipping name</li> <li>14.3 Transport hazard class(es) ADR/RID IMDG IATA</li> <li>14.4 Packing group Packing group</li> <li>14.5 Environmental hazards Environmental hazards</li> <li>14.6 Special precautions for user Special precautions for user</li> </ul>	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. <b>TION</b> 1992 Flammable liquid, toxic, n.o.s. (N,N-dimethylformamide, lead dichloride solution) 3 (6.1) 3 (6.1) 3 (6.1) III Classified as a Marine Pollutant. Not known.	
<ul> <li>13.1 Waste treatment methods</li> <li>13.2 Additional Information</li> <li>SECTION 14: TRANSPORT INFORMAT</li> <li>14.1 UN number UN No.</li> <li>14.2 UN proper shipping name UN proper shipping name</li> <li>14.3 Transport hazard class(es) ADR/RID IMDG IATA</li> <li>14.4 Packing group Packing group</li> <li>14.5 Environmental hazards Environmental hazards</li> <li>14.6 Special precautions for user Special precautions for user</li> </ul>	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. <b>TION</b> 1992 Flammable liquid, toxic, n.o.s. (N,N-dimethylformamide, lead dichloride solution) 3 (6.1) 3 (6.1) 3 (6.1) III Classified as a Marine Pollutant. Not known. <b>ding to IMO instruments</b> Not known.	

# **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation REACH: ANNEX XIV list of substances Not listed Certain components listed (N,N-Dimethylformamide) subject to authorisation



REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Certain components listed (N,N-Dimethylformamide, Lead dichloride)
Community Rolling Action Plan (CoRAP)	Not listed
Regulation (EC) N° 850/2004 of the	Not listed
European Parliament and of the Council	
on persistent organic pollutants	Net listed
Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer	Not listed
Regulation (EU) N° 649/2012 of the	Not listed
European Parliament and of the Council	
concerning the export and import of	
hazardous chemicals	
National regulations	
Other	Not known.
15.2 Chemical Safety Assessment	
	A REACH chemical safety assessment has not been carried out.

# SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

#### LEGEND

Acronyms	ADN : European Agreement concerning the International Carriage of Dangerous
	Goods by Inland Waterways
	ADR : European Agreement concerning the International Carriage of Dangerous
	Goods by Road
	CAS : Chemical Abstracts Service
	CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
	DNEL : Derived No Effect Level
	EC : European Community
	EINECS : European Inventory of Existing Commercial Chemical Substances
	IATA : International Air Transport Association
	IBC : Intermediate Bulk Container
	ICAO : International Civil Aviation Organization
	IMDG : International Maritime Dangerous Goods
	0
	LTEL : Long term exposure limit PBT : Persistent, Bioaccumulative and Toxic
	PNEC : Predicted No Effect Concentration
	REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
	RID : Regulations concerning the International Carriage of Dangerous Goods by Rail STEL : Short term exposure limit
	STOT : Specific Target Organ Toxicity
	SVHC : Substrances of Very High Concern UN : United Nations
	vPvB : very Persistent and very Bioaccumulative
Disclaimers	Information contained in this publication or as otherwise supplied to Users is believed
	to be accurate and is given in good faith, but it is for the Users to satisfy themselves
	of the suitability of the product for their own particular purpose. Ossila Limited gives
	no warranty as to the fitness of the product for any particular purpose and any
	implied warranty or condition (statutory or otherwise) is excluded except to the extent
	that exclusion is prevented by law. Ossila Limited accepts no liability for loss or
	damage (other than that arising from death or personal injury caused by defective
	product, if proved), resulting from reliance on this information. Freedom under
	Patents, Copyright and Designs cannot be assumed.