

# **SAFETY DATA SHEET**

Revision Number 5

A CSW Industrials Company

Issuing Date 06-Feb-2012

This SDS conforms to REACH SDS CLP regulation 2015/830.

Revision Date 27-Mar-2018



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# Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product Code(s) 221

Product Name API-MODIFIED

**Chemical name** 

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Sealant. Lubricants, Greases and Release Products.

**Uses advised against**No information available.

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

ImporterManufacturerJet-Lube (UK) LtdJet Lube, LLCJet-Lube House930 Whitmore Drive

Deferre Deed Meidenberd Destruct Terre 1104 750

Reform Road, Maidenhead Rockwall, Texas USA 75087
Berkshire UK TEL: +1-713-670-5700 (8am-5pm CST)

Berkshire UK SL6 8BY

TEL: 44 1628-631913 (8:00 a.m. -

5:00p.m. GMT)

### For further information, please contact.

**Responsible Persons** Regulatory Affairs Manager - Thomas Hansen

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Non-Emergency Telephone +1-780-463-7441 (JL Canada)
+44-1628-631913 (JL UK Office)

#### 1.4. Emergency telephone number

**Emergency Telephone Number** 44 1628-631913

Emergency telephone §45 - (EC)1272/2008	
Europe	112



Austria	Poison Information Center (AT): +43-(0)1-406 43 43	
Belgium	Poison Center (BE): +32 70 245 245	
Denmark	Poison Control Hotline (DK): +45 82 12 12 12	
Finland	Poison Information Centre (FI): +358 9 471 977	
France	ORFILA (FR): + 01 45 42 59 59	
Germany	Poison Center Berlin (DE): +49 030 30686 790 (24 h service, Advice in German and English)	
Ireland	National Poisons Information Centre (IE): +353 1 8379964	
Italy	Poison Center, Milan (IT): +39 02 6610 1029	
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)	
Norway	Poisons Information (NO): + 47 22 591300	
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97	
Portugal	Poison Information Center (PT): +351 21 330 3284	
Spain	Poison Information Service (ES): +34 91 562 04 20	
Sweden	Poisons Information Center (SV): +46 8 33 12 31	
Switzerland	Poison Center (CH): Tel 145: +41 44 251 51 51	
United Kingdom	NHS Direct (UK): +44 0845 46 47	

# **Section 2: Hazards Identification**

# 2.1. Classification of the substance or mixture

Regulation (EC) No 2015/830

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Gases)	Category 4 - (H332)
Acute toxicity - Inhalation (Vapors)	Category 4 - (H332)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Reproductive Toxicity	Category 1A - (H360D)
Effects on or via lactation	Yes
Specific target organ toxicity (repeated exposure)	Category 1 - (H372)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

# 2.2. Label elements



# Signal word Danger

# **Hazard Statements**

H302 - Harmful if swallowed

H332 - Harmful if inhaled

H362 - May cause harm to breast-fed children



H410 - Very toxic to aquatic life with long lasting effects

H360D - May damage the unborn child

# Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P263 - Avoid contact during pregnancy/while nursing

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P314 - Get medical advice/attention if you feel unwell

P501 - Dispose of contents/container to industrial incineration plant

#### **Additional information**

This product requires tactile warnings if supplied to the general public

This product requires child resistant fastenings if supplied to the general public

#### 2.3. Other hazards

No information available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable.

### 3.2 Mixtures

Chemical name	EC No	CAS-No	Percent	Classification according	REACH Reg.
				to Regulation (EC) No.	No.
				1272/2008 [CLP]	
Lubricating greases A	278-011-7	74869-21-9	30 - 40	No data available	05-2117852217-
complex combination of					42-0000
hydrocarbons having					
carbon numbers					
predominantly in the range of C12 through					
C50. may contain organic					
salts of alkali metals.					
alkaline earth metals, etc.					
Lead (powder particle	231-100-4	7439-92-1	30 - 40	Repr. 1A (H360)	01-2119513221-
diameter <1mm)				STOT RE 1 (H372)	59-0061
				Aquatic Acute 1 (H400)	
				Aquatic Chronic 1	
Craphita	231-955-3	7782-42-5	15-20	(H410) No data available	01-2119486977-
Graphite	231-900-3	1102-42-3	15-20	INO data available	12-XXXX
Zinc (powder)	231-175-3	7440-66-6	10 - 20	Aquatic Acute 1 (H400)	01-2119467174-
Zine (powder)	201 170 0	7 4 40 00 0	10 20	Aquatic Chronic 1	37-XXXX
				(H410)	0.7000
Copper (flake)	231-159-6	7440-50-8	1 - 5	Skin Irrit. 2 (H315)	01-2119480154-
				Eye Irrit. 2 (H319)	42
				Aquatic Acute 1 (H400)	
				Aquatic Chronic 2	
				(H410)	
Calcium oxide	215-138-9	1305-78-8	0-1	No data available	01-2119475325-
					36-XXXX



## Full text of H- and EUH-phrases: see section 16

#### Note

The producer of "74869-21-9" declares that it contains less than 3% DMSO extractable material by IP-346 The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. This note applies only to certain complex oil derived substances in Annex I

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC)

No. 1907/2006 (REACH), Article 59)

Chemical name	CAS-No	SVHC candidates
Lead (powder particle diameter	7439-92-1	-
<1mm)		
Copper (flake)	7440-50-8	-

# **Section 4: First aid measures**

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance. IF exposed or concerned:

Get medical advice/attention.

**Inhalation** If breathing has stopped, give artificial respiration. Get medical attention

immediately. Remove to fresh air. If symptoms persist, call a physician.

**Skin contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions

see a physician.

**Eye contact**Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and

upper eyelids. Consult a physician.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of

water. Never give anything by mouth to an unconscious person. Get medical

attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take

precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See

section 8 for more information.

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

**Symptoms** Coughing and/ or wheezing. Difficulty in breathing.

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

#### Section 5: FIRE FIGHTING MEASURES

## 5.1. Extinguishing media

surrounding environment.



Unsuitable extinguishing media No information available.

## 5.2. Special hazards arising from the substance or mixture

### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### **Hazardous Combustion Products**

Carbon oxides.

### 5.3. Advice for firefighters

# Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required.

Evacuate personnel to safe areas. Avoid breathing vapors or mists.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

**Environmental precautions** Should not be released into the environment. See Section 12 for additional

Ecological Information.

#### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## Section 7: HANDLING AND STORAGE

# 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid

contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable

respiratory equipment.

General Hygiene Considerations Do not eat, drink or smoke when using this product. Wash hands before breaks

and immediately after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities



**Storage Conditions** 

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

7.3. Specific end use(s)

**Risk Management Methods** (RMM)

The information required is contained in this Material Safety Data Sheet.

# 8.1. Control parameters

# **Exposure Limits**

Chemical name	EU	United Kingdom	France	Spain	Germany
Lead (powder particle	TWA: 0.15 mg/m <sup>3</sup>	TWA: 0.15 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.15 mg/m <sup>3</sup>	-
diameter <1mm)		STEL: 0.45 mg/m <sup>3</sup>	Repr*	Repr*	
7439-92-1			Carc*		
Graphite	-	STEL: 30 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	-
7782-42-5		STEL: 12 mg/m <sup>3</sup>			
		TWA: 10 mg/m <sup>3</sup>			
		TWA: 4 mg/m <sup>3</sup>			
Copper (flake)	-	TWA: 1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	-
7440-50-8		TWA: 0.2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	
		STEL: 0.6 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>		
		STEL: 2 mg/m <sup>3</sup>			
Calcium oxide	-	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
1305-78-8		STEL: 6 mg/m <sup>3</sup>			
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Lead (powder particle	TWA: 0.075	TWA: 0.15 mg/m <sup>3</sup>	TWA: 0.15 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>
diameter <1mm)	mg/m³	Carc*			
7439-92-1	TWA: 0.05 mg/m <sup>3</sup>				
	Carc*				
Graphite	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>
7782-42-5					
Copper (flake)	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1.0 mg/m <sup>3</sup>
7440-50-8		TWA: 1 mg/m <sup>3</sup>		TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
Calcium oxide	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
1305-78-8					
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Lead (powder particle	STEL: 0.4 mg/m <sup>3</sup>	STEL: 0.8 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>		TWA: 0.15 mg/m <sup>3</sup>
diameter <1mm)	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>		STEL: 0.05 mg/m <sup>3</sup>	
7439-92-1		Carc*		Repr*	Repr*
		Repr*			
		Dev*			
Graphite	STEL 10 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 4.0 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
7782-42-5	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 1.0 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>
			TWA: 6.0 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	STEL: 30 mg/m <sup>3</sup>
				TWA: 4 mg/m <sup>3</sup>	STEL: 12 mg/m <sup>3</sup>
				STEL: 10 mg/m <sup>3</sup>	
				STEL: 4 mg/m <sup>3</sup>	
				STEL: 15 mg/m <sup>3</sup>	
				STEL: 8 mg/m <sup>3</sup>	
Zinc (powder)	-	STEL: 0.4 mg/m <sup>3</sup>	-	-	-



7440-66-6		TWA: 0.1 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>			
Copper (flake)	STEL: 4 mg/m <sup>3</sup>	STEL: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>
7440-50-8	STEL: 0.4 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	_	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
	TWA: 1 mg/m <sup>3</sup>			STEL: 0.1 mg/m <sup>3</sup>	STEL: 0.6 mg/m <sup>3</sup>
	TWA: 0.1 mg/m <sup>3</sup>			STEL: 1 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>
Calcium oxide	STEL: 4 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
1305-78-8	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>		STEL: 6 mg/m <sup>3</sup>
			STEL: 6 mg/m <sup>3</sup>		
			STEL: 4 mg/m <sup>3</sup>		
Chemical name	Romania	Ukraine TLVs	Sweden TLVs	Hungary	Turkey TLVs
Lead (powder particle	TWA: 0.05 mg/m <sup>3</sup>	3		TWA: 0.15 mg/m <sup>3</sup>	
diameter <1mm)	STEL: 0.10				
7439-92-1	mg/m³				
Graphite 7782-42-5	TWA: 2 mg/m <sup>3</sup>		LLV: 5 mg/m <sup>3</sup>		
Copper (flake)	TWA: 0.50 mg/m <sup>3</sup>	3	LLV: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	
7440-50-8	STEL: 0.20		LLV: 0.2 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	
	mg/m³			STEL: 4 mg/m <sup>3</sup>	
	STEL: 1.50			STEL: 0.4 mg/m <sup>3</sup>	
	mg/m³				
Calcium oxide	TWA: 2 mg/m <sup>3</sup>			STEL: 5 mg/m <sup>3</sup>	
1305-78-8	STEL: 5 mg/m <sup>3</sup>			TWA: 5 mg/m <sup>3</sup>	

# **Biological occupational exposure limits**

Chemical name	European Union	United Kingdom	France	Spain	Germany
Lead (powder particle	Lead 70	-	400 μg/L blood	70 μg/dL blood	300 µg/L whole
diameter <1mm)	μg/100mL no		Lead biological	not critical Lead	blood no
7439-92-1	restriction		limit value, men	3,K	restriction Lead
	Lead 0.075 mg/m <sup>3</sup>		300 µg/L blood		women age below
	40 hours per		Lead biological		45 years
	week		limit value,		400 µg/L whole
	Lead 40		women		blood no
	μg/100mL no		200 µg/L blood		restriction Lead
	restriction		Lead medical		women 45 years
			surveillance		and older
			value, men		
			100 µg/L blood Lead medical		
			surveillance		
			value, women		
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Lead (powder particle	60 Pb µg/100mL	-	-	1.4 µmol/L blood	20 μg/100mL
diameter <1mm)	blood end of			not critical Lead	blood Lead
7439-92-1	workweek Lead			= = = = =	3.000 2000
	remediation must				
	be performed				
	when workers of				
	fertile age have				
	Lead in blood				
	levels >40 µg/100				
	mL;Lead				
	monitoring				



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Lead (powder particle diameter <1mm) 7439-92-1	-	400 100	-	Norway -	Ireland 70 µg/100mL blood not critical Lead Binding Limit Value, Mandatory
Chemical name	should be taken to minimize the child's exposure to environmental lead. Austria	Switzerland	Poland		
	cognitive deficits. The blood Pb of these children should be closely monitored and appropriate steps				
	children remains elevated, they may be at increased risk of				
	for Disease Control guideline of 10 µg/dL. If the blood Pb of such				
	risk of delivering a child with a blood Pb over the current Centers				
	potential, whose blood Pb exceeds 10 µg/dL, are at				
	μg/100mL blood not critical Lead Note: Women of child bearing				
	worker is >40 μg/100 mL. (ACGIH:) 30				
	at the end of a workweek, and the Lead in blood level of a single				
	must be done when Lead levels are >0.075 mg/m³				



		Lead health
		surveillance is
		carried out if >40
		μg/100mL of
		blood is measured
		in individual
		employees
		30 μg/100mL
		blood not critical
		Lead lower
		SCOEL
		recommendation

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

### 8.2. Exposure controls

### Personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

Hand Protection Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Environmental exposure** 

controls

No information available.

# Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical statePaste / GelAppearanceCopper BronzeOdorPetroleum

ColorNo information availableOdor ThresholdNo data available

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

pH 7 Melting / freezing point 232 °C

Melting / freezing point232 °CNone knownBoiling point / boiling range260 °C

Flash Point> 221 °COpen cupEvaporation Rate< No data available</th>None knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limit 7%
Lower flammability limit 0.9%

Vapor pressure &<0.01&20 None known Vapor density >5 None known

Relative density 2.0
Water Solubility Negligible

Solubility(ies) No data available None known

Partition coefficient: n-octanol/water Not Applicable



Autoignition temperature>260 °CNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownViscosityNo data availableNone known

9.2. Other information

Softening Point No information available Molecular Weight No information available

VOC Content (%) None

None

Liquid DensityNo information availableBulk DensityNo information availableParticle SizeNo information availableParticle Size DistributionNo information available

# **Section 10: Stability and reactivity**

### 10.1. Reactivity

No data available.

# 10.2. Chemical stability

Stable under normal conditions.

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

#### 10.3. Possibility of hazardous reactions

**Possibility of Hazardous** 

Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Excessive heat.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

Carbon oxides.

# **Section 11: Toxicological information**

## 11.1. Information on toxicological effects

# Information on likely routes of exposure

#### **Product Information**



**Inhalation** Specific test data for the substance or mixture is not available. Harmful by

inhalation. (based on components).

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Causes mild skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Harmful if

swallowed. (based on components).

### Information on toxicological effects

**Symptoms** Coughing and/ or wheezing.

# Numerical measures of toxicity

#### **Acute Toxicity**

## The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 864.00 mg/kg
ATEmix (inhalation-gas) 4,624.00 ppm
ATEmix 1.54 mg/L

(inhalation-dust/mist)

ATEmix (inhalation-vapor) 11.00 mg/L

#### Unknown acute toxicity

99.15 % of the mixture consists of ingredient(s) of unknown toxicity

33.65 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

99.15 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

68.35 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

68.35 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

68.35 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lubricating greases A	= 2280 mg/kg (Rat)	-	-
complex combination of			
hydrocarbons having carbon			
numbers predominantly in			
the range of C12 through			
C50. may contain organic			
salts of alkali metals, alkaline			
earth metals, etc.			
Zinc (powder)	= 630 mg/kg (Rat)	-	-
Calcium oxide	= 500 mg/kg ( Rat )	-	-

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**No information available.

Serious eye damage/eye

No information available.

irritation

Respiratory or skin sensitization No information available.



**Germ cell mutagenicity** No information available.

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

**Reproductive Toxicity** Contains a known or suspected reproductive toxin.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	EU - Annex VI Reproductive
Lead (powder particle diameter <1mm)	Category 3
	Category 1

Developmental Toxicity Contains ingredients that have suspected developmental hazards

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

Causes damage to the following organs through prolonged or repeated exposure: Cardiovascular system, Central nervous system, Hematopoietic System, Immune system, Kidneys, Peripheral Nervous System.

Aspiration hazard No information available.

# **Section 12: Ecological information**

#### **12.1. Toxicity**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects. .

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna
			Microorganisms	(Water Flea)
Lubricating greases A	>1001 mg/l	96h LC50: > 2000	-	-
complex combination		mg/L (Salmo gairdneri)		
of hydrocarbons				
having carbon				
numbers				
predominantly in the				
range of C12 through				
C50. may contain				
organic salts of alkali				
metals, alkaline earth				
•				
metals, etc.		1050001 044		E050 40 L 000 - //
Lead (powder particle	-	LC50 96 h: = 0.44	-	EC50 48 h: = 600 μg/L
diameter <1mm)		mg/L semi-static		(water flea)
		(Cyprinus carpio) LC50		
		96 h: = 1.17 mg/L		
		flow-through		
		(Oncorhynchus		
		mykiss) LC50 96 h: =		
		1.32 mg/L static		
		(Oncorhynchus		
		mykiss)		
Zinc (powder)	EC50 72 h: 0.09 -	LC50 96 h:	-	EC50 48 h: 0.139 -



			I	
	0.125 mg/L static	0.211-0.269 mg/L		0.908 mg/L Static
	(Pseudokirchneriella	semi-static		(Daphnia magna)
	subcapitata)	(Pimephales promelas)		
	EC50 96 h: 0.11 -	LC50 96 h: 2.16-3.05		
	0.271 mg/L static	mg/L flow-through		
	(Pseudokirchneriella	(Pimephales promelas)		
	subcapitata)	LC50 96 h: = 0.24		
	odbodpitata)	mg/L flow-through		
		(Oncorhynchus		
		mykiss)		
		LC50 96 h: = 0.41		
		mg/L static		
		(Oncorhynchus		
		mykiss)		
		LC50 96 h: = 0.45		
		mg/L semi-static		
		(Cyprinus carpio)		
		LC50 96 h: = 0.59		
		mg/L semi-static		
		(Oncorhynchus		
		mykiss)		
		LC50 96 h: = 2.66		
		mg/L static		
		(Pimephales promelas)		
		LC50 96 h: = 3.5 mg/L		
		static (Lepomis		
		macrochirus)		
		LC50 96 h: = 30 mg/L		
		(Cyprinus carpio)		
		LC50 96 h: = 7.8 mg/L		
		static (Cyprinus carpio)		
Copper (flake)	96h EC50: 0.031 -	96h LC50: 0.0068 -	-	48h EC50: = 0.03
	0.054 mg/L	0.0156 mg/L		mg/L
	(Pseudokirchneriella	(Pimephales promelas)		G
	` subcapitata) 72h	96h LC50: = 1.25 mg/L		
	EC50: 0.0426 -	(Lepomis macrochirus)		
	0.0535 mg/L	96h LC50: = 0.052		
	(Pseudokirchneriella	mg/L (Oncorhynchus		
	subcapitata)	mykiss) 96h LC50: =		
	Juboapitata)	0.2 mg/L (Pimephales		
		promelas) 96h LC50: <		
		0.3 mg/L (Pimephales		
		promelas) 96h LC50: =		
		0.112 mg/L (Poecilia		
		reticulata) 96h LC50: =		
		0.3 mg/L (Cyprinus		
		carpio) 96h LC50: =		
		0.8 mg/L (Cyprinus		
		carpio)		
Calcium oxide	-	LC50 96 h: = 1070	-	-
		mg/L static (Cyprinus		
		carpio)	i e	

# 12.2. Persistence and degradability



**Persistence and Degradability** No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

12.4. Mobility in soil

Mobility in soil No information available.

# 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

Di dila vi vi di doccocinone i vi internazioni di dila di		
Chemical name	PBT and vPvB assessment	
Lead (powder particle diameter <1mm)	PBT assessment does not apply	
Graphite	The substance is not PBT / vPvB PBT assessment does	
	not apply	
Zinc (powder)	The substance is not PBT / vPvB PBT assessment does	
	not apply	
Copper (flake)	The substance is not PBT / vPvB PBT assessment does	
	not apply	
Calcium oxide	The substance is not PBT / vPvB PBT assessment does	
	not apply	

#### 12.6. Other adverse effects

Other adverse effects No information available.

# **Section 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance

with environmental legislation.

**Contaminated packaging** No information available.

# **Section 14: Transport information**

IMDG/IMO

**14.1 UN-No.** UN3082

**14.2 Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s.(Lead, Zinc

(powder)), 9, III, Marine Pollutant

**14.3 Hazard Class** 9 **14.4 Packing Group** III

**14.5 Marine Pollutant**Product is a marine pollutant according to the criteria set by IMDG/IMO

Environmental hazard Yes
14.6 Special Provisions None
EmS-No. F-A, S-F



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

No information available

<u>RID</u>

**14.1 UN-No.** UN3082

**14.2 Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

**Description** UN3082 Environmentally hazardous substance, liquid, n.o.s.(Lead, Zinc

(powder)), 9, III

14.3 Hazard Class9ADR/RID-Labels914.4 Packing GroupIII14.5 Environmental hazardYes14.6 Special ProvisionsNoneClassification codeM6

ADR

**14.1 UN-No.** UN3082

**14.2 Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

**Description** UN3082 Environmentally hazardous substance, liquid, n.o.s.(Lead, Zinc

(powder)), 9, III(E)

14.3 Hazard Class914.4 Packing GroupIII14.5 Environmental hazardYes

**14.6 Special Provisions** None 274, 335, 601, 375

Classification code M6 Tunnel restriction code (E)

IATA

**14.1 UN-No.** UN3082

**14.2 Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s.(Lead, Zinc

(powder)), 9, III

14.3 Hazard Class914.4 Packing GroupIII14.5 Environmental hazardYes14.6 Special ProvisionsNone

ERG Code 9L

# **Section 15: Regulatory information**

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

## National regulations

### **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Lead (powder particle diameter <1mm)	RG 1	-
7439-92-1		
Graphite	RG 16	-
7782-42-5	RG 25	
Zinc (powder)	RG 61	-



7440-66-6		
Copper (flake)	RG 5,RG 14,RG 15,RG 15bis,RG	-
7440-50-8	20bis	

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

#### Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc 74869-21-9	28.	
Lead (powder particle diameter <1mm) - 7439-92-1	Use restricted. See item 63. Use restricted. See item 30.	

#### **Persistent Organic Pollutants**

Not applicable.

#### Dangerous substance category per Seveso Directive (2012/18/EU)

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

#### **International Inventories**

TSCA Complies.
DSL/NDSL Complies.
EINECS/ELINCS Complies.
ENCS Complies.

**IECSC** Contact supplier for inventory compliance status.

KECLComplies.PICCSComplies.AICSComplies.

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances



#### 15.2. Chemical safety assessment

No information available.

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under sections 2 and 3

H360Df - May damage the unborn child. Suspected of damaging fertility

H372 - Causes damage to organs through prolonged or repeated exposure if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H335 - May cause respiratory irritation

H315 - Causes skin irritation

H319 - Causes serious eye irritation

#### Legend

SVHC: Substances of Very High Concern for Authorization:

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value - Skin designation

#### Key literature references and sources for data

www.ChemADVISOR.com/

Prepared By Product Stewardship

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#### **Disclaimer**

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**End of Safety Data Sheet** 

