

# Safety Data Sheet

acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

## 1 Identification

- **Product identifier**
- **Trade name:** Saltcake
- **Application of the substance / the mixture** Waste material.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Scepter, Inc.  
1485 Scepter Lane  
Waverly, TN. 37185  
Tel: 931-535-3565
- **Emergency telephone number:** 3E Company: (800) 360-3220 - Contract 10767



## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Water-react. 3 H261 In contact with water releases flammable gas.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

Repr. 1A H360 May damage fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

Combustible Dust May form combustible dust concentrations in air.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02 GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

nickel  
lead  
cobalt

(Contd. on page 2)

# Safety Data Sheet

## acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

Trade name: Saltcake

(Contd. of page 1)

- **Hazard statements**

May form combustible dust concentrations in air. (USA GHS Only)  
 H261 In contact with water releases flammable gas.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.  
 H360 May damage fertility or the unborn child.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 May form combustible dust concentrations in air.

- **Precautionary statements**

P281 Use personal protective equipment as required.  
 P260 Do not breathe dust.  
 P314 Get medical advice/attention if you feel unwell.  
 P370+P378 In case of fire: Use for extinction: Special powder for metal fires.  
 P402+P404 Store in a dry place. Store in a closed container.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard description:**

- **WHMIS-symbols:**

B6 - Reactive flammable material  
 D2A - Very toxic material causing other toxic effects



- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



The substance demonstrates unusual reactivity with water.

- **HMIS-ratings (scale 0 - 4)**



Warning: Contains lead salt(s). Long-term health hazard.

\* - Indicates a long term health hazard from repeated or prolonged exposures.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 3)

# Safety Data Sheet

## acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

Trade name: Saltcake

(Contd. of page 2)

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

1344-28-1	aluminium oxide	25-50%
7429-90-5	aluminium powder (pyrophoric)	10-25%
	⚠ Pyr. Sol. 1, H250; Water-react. 2, H261	
7440-21-3	silicon	2.5-10%
	⚠ Flam. Sol. 2, H228	
7439-95-4	magnesium powder (pyrophoric)	£ 2.5%
	⚠ Pyr. Sol. 1, H250; Water-react. 1, H260	
7440-50-8	copper (powdered)	£ 2.5%
7440-66-6	zinc metal	£ 2.5%
7439-96-5	manganese	£ 2.5%
7786-30-3	magnesium chloride	£ 2.5%
7440-47-3	chromium	£ 2.5%
7439-89-6	iron	£ 2.5%
7440-31-5	tin	£ 2.5%
7440-02-0	nickel	£ 2.5%
	⚠ Carc. 2, H351; STOT RE 1, H372	
	⚠ Skin Sens. 1, H317	
7439-92-1	lead	£ 2.5%
	⚠ Acute Tox. 3, H301	
	⚠ Repr. 1A, H360; STOT RE 2, H373	
	⚠ Acute Tox. 4, H332	
7440-48-4	cobalt	£ 2.5%
	⚠ Resp. Sens. 1, H334	
	⚠ Skin Sens. 1, H317	

- **Additional information:**

Material contains less than 10 ppm (10 mg/l) of the following: Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver.

Material contains no detectable Volatile Organic Compounds, Semi-Volatile Organic Compounds, TCLP Pesticides, or TCLP Chlorinated Herbicides.

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air.  
Provide oxygen treatment if affected person has difficulty breathing.  
Seek medical treatment in case of complaints.
- **After skin contact:**  
Brush off loose particles from skin.

(Contd. on page 4)

## Safety Data Sheet

acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

**Trade name: Saltcake**

(Contd. of page 3)

Clean with water and soap.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· **Most important symptoms and effects, both acute and delayed**

Asthma attacks

Allergic reactions

Breathing difficulty

Coughing

Irritant to skin and mucous membranes.

Irritant to eyes.

Gastric or intestinal disorders

Fever

Disorientation

· **Danger**

Danger of serious damage to health by prolonged exposure.

Danger of impaired breathing.

Limited evidence of a carcinogenic effect.

Causes damage to organs through prolonged or repeated exposure.

Danger of convulsion.

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

Contains heavy metals. Consult literature for specific antidotes.

May produce a metal fume disease effect.

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary edema.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

Contains nickel, cobalt. May produce an allergic reaction.

### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Dry sand

Special powder for metal fires. Do not use water.

· **For safety reasons unsuitable extinguishing agents:** Water

· **Special hazards arising from the substance or mixture**

May form combustible dust concentrations in air.

During heating or in case of fire poisonous gases are produced.

Hazardous combustions products: Metal Compounds, Carbon Monoxide, Carbon Dioxide, Nitrous Oxides, Various complex oxides of metals, Nitrogen.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

(Contd. on page 5)

# Safety Data Sheet

## acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

Trade name: Saltcake

(Contd. of page 4)

- **Additional information** Evacuate area and fight fire from from the upwind side.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation.
- **Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.  
Dispose contaminated material as waste according to item 13.  
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Precautions for safe handling**  
Prevent formation of dust.  
Any deposit of dust which cannot be avoided must be regularly removed.  
Provide suction extractors if dust is formed.
- **Information about protection against explosions and fires:**  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Protect from humidity and water.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from water.  
Do not store together with alkalis (caustic solutions).  
Do not store together with acids.  
Store away from oxidizing agents.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from humidity and water.
- **Specific end use(s)** No further relevant information available.

(Contd. on page 6)

# Safety Data Sheet

## acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

Trade name: Saltcake

(Contd. of page 5)

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

#### · Components with limit values that require monitoring at the workplace:

##### 1344-28-1 aluminium oxide

PEL (USA)	Long-term value: 15*; 15** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *Total dust **Respirable fraction
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction
EL (Canada)	Long-term value: 10 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> total dust
LMPE (Mexico)	Long-term value: 10 mg/m <sup>3</sup> A4, (e)

##### 7429-90-5 aluminium powder (pyrophoric)

PEL (USA)	Long-term value: 15*; 15** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *Total dust **Respirable fraction
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction
EL (Canada)	Long-term value: 1.0 mg/m <sup>3</sup> metal and insoluble compounds, respirable
EV (Canada)	Long-term value: 5 mg/m <sup>3</sup> aluminium-containing (as aluminium)
LMPE (Mexico)	Long-term value: 2 5* mg/m <sup>3</sup> *humos de soldadura

##### 7440-21-3 silicon

PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	TLV withdrawn
EL (Canada)	Long-term value: 10 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> total dust
LMPE (Mexico)	Short-term value: 20 mg/m <sup>3</sup> Long-term value: 10 mg/m <sup>3</sup> (e)

(Contd. on page 7)

## Safety Data Sheet

acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

Trade name: Saltcake

(Contd. of page 6)

**7440-50-8 copper (powdered)**

PEL (USA)	Long-term value: 1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
REL (USA)	Long-term value: 1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
TLV (USA)	Long-term value: 1* 0.2** mg/m <sup>3</sup> *dusts and mists; **fume; as Cu
EL (Canada)	Long-term value: 1* 0.2** mg/m <sup>3</sup> *dusts and mists; **fume
EV (Canada)	Long-term value: 0.2* 1** mg/m <sup>3</sup> as copper, *fume; **dust and mists
LMPE (Mexico)	Short-term value: 2* 2** mg/m <sup>3</sup> Long-term value: 0.2* 1** mg/m <sup>3</sup> *humo (como Cu); **polvo y niebla (como Cu)

**7439-96-5 manganese**

PEL (USA)	Ceiling limit value: 5 mg/m <sup>3</sup> as Mn
REL (USA)	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup> fume, as Mn
TLV (USA)	Long-term value: 0.02* 0.1* mg/m <sup>3</sup> as Mn; *respirable **inhalable fraction
EL (Canada)	Long-term value: 0.2 mg/m <sup>3</sup> as Mn; R
EV (Canada)	Long-term value: 0.2 mg/m <sup>3</sup> as manganese
LMPE (Mexico)	Long-term value: 0.2 mg/m <sup>3</sup>

**7440-47-3 chromium**

PEL (USA)	Long-term value: 1* 0.5** mg/m <sup>3</sup> *metal; **inorganic compds., as Cr
REL (USA)	Long-term value: 0.5* mg/m <sup>3</sup> *metal+inorg.compds.as Cr; See Pocket Guide App. C
TLV (USA)	Long-term value: 0.5 mg/m <sup>3</sup>
EL (Canada)	Short-term value: C 0.1*** ppm Long-term value: 0.5* 0.01** 0.025*** mg/m <sup>3</sup> IARC1,ACGIH A1; *metal, inorg. **insol.; **water-sol.
EV (Canada)	Long-term value: 0.05 mg/m <sup>3</sup>
LMPE (Mexico)	Long-term value: 0.5* mg/m <sup>3</sup> *metal y comp. inorg. de cromo metal y Cr III: A4

**7439-89-6 iron**

EV (Canada)	Long-term value: 1* 5** mg/m <sup>3</sup> as iron; *salts, water-soluble; **welding fume
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(Contd. on page 8)

## Safety Data Sheet

acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

Trade name: Saltcake

(Contd. of page 7)

**7440-31-5 tin**

PEL (USA)	Long-term value: 2 mg/m <sup>3</sup> metal
REL (USA)	Long-term value: 2 mg/m <sup>3</sup>
TLV (USA)	Long-term value: 2 mg/m <sup>3</sup> metal
EL (Canada)	Long-term value: 2 mg/m <sup>3</sup> metal
EV (Canada)	Long-term value: 2* 0.1** mg/m <sup>3</sup> *metal, oxide, inorg. compds.; **org. compds.: Skin
LMPE (Mexico)	Short-term value: 4* 0.2** mg/m <sup>3</sup> Long-term value: 2* 0.1** mg/m <sup>3</sup> *oxido y comp. inorg. excepto SnH <sub>4</sub> ; **comp. org.

**7440-02-0 nickel**

PEL (USA)	Long-term value: 1 mg/m <sup>3</sup>
REL (USA)	Long-term value: 0.015 mg/m <sup>3</sup> as Ni; See Pocket Guide App. A
TLV (USA)	Long-term value: 1.5* mg/m <sup>3</sup> elemental, *inhalable fraction
EL (Canada)	Long-term value: 0.05 mg/m <sup>3</sup> as Ni; ACIGH A1, IARC 1
EV (Canada)	Long-term value: 1* 0.2** 0.1*** mg/m <sup>3</sup> inh.; *metal; **insol. compds.; ***soluble compds.
LMPE (Mexico)	Short-term value: 0.3* mg/m <sup>3</sup> Long-term value: 0.1* 1** mg/m <sup>3</sup> *compuestos solubles (como Ni); **metal

**7439-92-1 lead**

PEL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *see 29 CFR 1910.1025
REL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *8-hr TWA, excl. lead arsenate; See PocketGuideApp.C
TLV (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *and inorganic compounds, as Pb; BEI
EL (Canada)	Long-term value: 0.05 mg/m <sup>3</sup> R; elemental: IARC 2B, inorganic comp.: IARC 2A
EV (Canada)	Long-term value: 0.05 mg/m <sup>3</sup> as Pb, Skin (organic compounds)
LMPE (Mexico)	Long-term value: 0.15 mg/m <sup>3</sup> A3

(Contd. on page 9)



# Safety Data Sheet

acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

Trade name: Saltcake

(Contd. of page 8)

· **Ingredients with biological limit values:**

**7439-92-1 lead**

BEI (USA)	30 µg/100 ml Medium: blood Time: not critical Parameter: Lead
	10 µg/100 ml Medium: blood Time: not critical Parameter: Lead (women of child bearing potential)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Pregnant women should strictly avoid inhalation or skin contact.  
Vacuum clean contaminated clothing. Do not blow or brush off contamination.  
The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Do not inhale dust / smoke / mist.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

· **Breathing equipment:**

For spills, respiratory protection may be advisable.  
Particulate mask should filter at least 99% of airborne particles.  
Suitable respiratory protective device recommended.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Eye protection:**



Safety glasses

· **Body protection:** Protective work clothing

(Contd. on page 10)

## Safety Data Sheet

acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

Trade name: Saltcake

- **Limitation and supervision of exposure into the environment**  
No further relevant information available.

(Contd. of page 9)

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - **Form:** Solid in various forms
  - **Color:** Dark grey
- **Odor:** Ammonia-like
- **Odor threshold:** Not determined.
- **pH-value:** Not applicable.
- **Change in condition**
  - **Melting point/Melting range:** Undetermined.
  - **Boiling point/Boiling range:** 2662°F / 1461 °C (4824°F / 2662 °F)
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Contact with water liberates extremely flammable gases.
- **Auto-ignition temperature:** 752°F / 400 °C (1386°F / 752 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** May form combustible dust concentrations in air.
- **Explosion limits:**
  - **Lower:** Not determined.
  - **Upper:** Not determined.
- **Vapor pressure:** Not applicable.
- **Density at 20 °C (68 °F):** 3 g/cm<sup>3</sup> (25.035 lbs/gal)
- **Relative density** Not determined.
- **Vapour density** Not applicable.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with**
  - **Water:** Insoluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - **Dynamic:** Not applicable.
  - **Kinematic:** Not applicable.
- **Other information** No further relevant information available.

(Contd. on page 11)

# Safety Data Sheet

## acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

Trade name: Saltcake

(Contd. of page 10)

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**  
Contact with water releases flammable gases.  
Strong exothermic reaction with acids.  
Contact with acids releases flammable gases.  
Reacts with alkali (lyes).  
Risk of dust explosion if enriched with fine dust in the presence of air.  
Reacts with halogenated compounds.  
Toxic fumes may be released if heated above the decomposition point.  
Reacts with amines.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Flammable gases/vapors  
Toxic metal oxide smoke  
Toxic metal compounds  
Ammonia  
Nitrogen oxides (NOx)  
Methane

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

<b>7440-48-4 cobalt</b>		
Oral	LD50	6170 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:**  
Sensitization possible through skin contact.  
Sensitization possible through inhalation.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant  
Danger through skin absorption.  
Suspected of causing cancer.  
May damage fertility or the unborn child.

(Contd. on page 12)

# Safety Data Sheet

## acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

Trade name: Saltcake

(Contd. of page 11)

- **Carcinogenic categories**

- **NTP (National Toxicology Program)**

7440-02-0	nickel	R
7439-92-1	lead	R

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Repeated Dose Toxicity:**

May cause damage to organs through prolonged or repeated exposure.  
Repeated exposures may result in skin and/or respiratory sensitivity.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** May be accumulated in organism
- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

· **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary.

Harmful to aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Contact waste processors for recycling information.

Must be specially treated adhering to official regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

(Contd. on page 13)

# Safety Data Sheet

acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

Trade name: Saltcake

(Contd. of page 12)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN3170
- **UN proper shipping name**
- **DOT** 3170 Aluminum remelting by-products
- **ADR, IMDG, IATA** 3170 ALUMINIUM REMELTING BY-PRODUCTS
- **Transport hazard class(es)**

- **DOT**



- **Class** 4.3 Substances which, in contact with water, emit flammable gases.
- **Label** 4.3

- **ADR**



- **Class** 4.3 (W2) Substances which, in contact with water, emit flammable gases
- **Label** 4.3

- **IMDG, IATA**



- **Class** 4.3 Substances which, in contact with water, emit flammable gases.
- **Label** 4.3
- **Packing group**
- **DOT, ADR, IMDG, IATA** III
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Substances which, in contact with water, emit flammable gases
- **Danger code (Kemler):** 423
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

(Contd. on page 14)

# Safety Data Sheet

acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

Trade name: Saltcake

· UN "Model Regulation":

UN3170, Aluminum remelting by-products, 4.3, III

(Contd. of page 13)

## 15 Regulatory information

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

### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

### · Section 313 (Specific toxic chemical listings):

Substance / component not listed individually, but listed under family group as Nickel salts.

1344-28-1	aluminium oxide
7429-90-5	aluminium powder (pyrophoric)
7440-50-8	copper (powdered)
7440-66-6	zinc metal
7439-96-5	manganese
7440-47-3	chromium
7440-02-0	nickel

### · TSCA (Toxic Substances Control Act):

All ingredients are listed.

### · Proposition 65 (California)

#### · Chemicals known to cause cancer:

7440-02-0	nickel
7439-92-1	lead
7440-48-4	cobalt

#### · Chemicals known to cause reproductive toxicity for females:

7439-92-1	lead
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#### · Chemicals known to cause reproductive toxicity for males:

7439-92-1	lead
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#### · Chemicals known to cause developmental toxicity:

7439-92-1	lead
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#### · Carcinogenic categories

##### · EPA (Environmental Protection Agency)

7440-50-8	copper (powdered)	D
7440-66-6	zinc metal	D, I, II
7439-96-5	manganese	D
7440-47-3	chromium	D
7439-92-1	lead	B2
7440-39-3	barium	D, CBD(inh), NL(oral)

##### · IARC (International Agency for Research on Cancer)

7631-86-9	silicon dioxide	3
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(Contd. on page 15)

# Safety Data Sheet

## acc. to HCS and GHS

Printing date 05/05/2014

Reviewed on 05/05/2014

Trade name: Saltcake

(Contd. of page 14)

7440-47-3	chromium	3
7440-02-0	nickel	1
7439-92-1	lead	2B
7440-48-4	cobalt	2B

· **TLV (Threshold Limit Value established by ACGIH)**

1344-28-1	aluminium oxide	A4
7429-90-5	aluminium powder (pyrophoric)	A4
7440-47-3	chromium	A4
7440-02-0	nickel	A5
7439-92-1	lead	A3
7440-39-3	barium	A4
7440-48-4	cobalt	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

7440-02-0	nickel	
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· **State Right to Know Listings**

None of the ingredients is listed.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

7440-47-3	chromium	
7440-02-0	nickel	
7439-92-1	lead	
7440-48-4	cobalt	

· **Canadian Ingredient Disclosure list (limit 1%)**

1344-28-1	aluminium oxide	
7429-90-5	aluminium powder (pyrophoric)	
7631-86-9	silicon dioxide	
7440-50-8	copper (powdered)	
7439-96-5	manganese	
7440-31-5	tin	

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 05/05/2014 / -

· **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)

(Contd. on page 16)

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(Contd. of page 15)

IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
Flam. Sol. 2: Flammable solids, Hazard Category 2  
Pyr. Sol. 1: Pyrophoric Solids, Hazard Category 1  
Water-react. 1: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 1  
  
Water-react. 2: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2  
  
Water-react. 3: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 3  
  
Acute Tox. 3: Acute toxicity, Hazard Category 3  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Carc. 2: Carcinogenicity, Hazard Category 2  
Repr. 1A: Reproductive toxicity, Hazard Category 1A  
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1  
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

**Sources**

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