

# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

# Nickelkromets – Kromets Sitek – MC2

# SECTION 1. Identification of the substance/mixture and of the company

1.1 Product identifier Nickelkromets – Kromets Sitek - MC2

### 1.2 Relevant identified uses of the product and uses advised against

Intended use: Professional use. Electronics chemical.

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

Manufacturer:	Sunchem AB
Postadress:	Box 69
Land: Telefon	SE - 433 21 Partille Sverige +46-31-447310

E-mail: purchasing@sunco.se

# 1.4 Telephone emergency number:

In case of emergency, contact toxicological information, emergency tel 112. For non-emergency poison information, see: http://www.who.int/gho/phe/chemical\_safety/poisons\_centres/en/

# **SECTION 2. Hazards identification**

# 2.1 Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 (CLP)

Skin Corrosion/irritation ((Category 1B); H314 Serious eye damage/eye irritation (Category 1), H318 Skin Sensitisers (Kategori 1A), H317 Acute toxicity (Category 3: inhalation), H331 Farligt för vattenmiljön – Fara för fördröjda (kroniska) effekter (Kategori : Kronisk 2), H411

### 2.2 Label elements

# Classification according to regulation (EC) No. 1272/2008 (CLP)

# Pictogram(s)



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Signal word Danger

### Hazard statements

- H314 Causes severe skin burns and eye damage.
- **H317** May cause an allergic skin reaction.
- H331 Toxic if inhaled.
- **H411** Toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

# **Precautionary statements**

P260 - Do not breathe mist, spray, vapours.

P264 - Wash hands thoroughly after handling.

P273 - Avoid release to the environment.

**P280** - Wear protective clothing, protective gloves, eye protection/face protection.

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water /shower.

**P304+P340** - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**P305+P351+P338** - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.

**P501** - Dispose of contents/container to an approved waste disposal plant.

**Contains** Ammonium cerium (IV) nitrate (15%) och Nitric acid (30 %)

# 2.3 Other hazards

This mixture does not contain any substances that meets the criteria for PBT or vPvB in accordance with Regulation (EC) No. 1907/2006, Annex XIII.

This mixture does not contain substances at  $\geq 0,1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

# **SECTION 3. Composition/information on ingredients**

# 3.2 Mixtures

# Declaration of components according to Regulation (EC) No. 1272/2008

Chemical name	CAS No. EC No.	REACH Reg. No. Index No.	Conc. %	Classification
Nitric acid	7697-37-2 231-714-2	01-2119487297-23 007-004-00-1	< 30	Ox. Liq 2; H272 Skin Corr 1A; H314 Acute Tox 3; H331
Ammonium cerium (IV) nitrate	16774-21-3 240-827-6	01-2119971819-18 -	5 - 15	Ox. Sol 3; H272 Met Corr 1; H290 Acute Tox. 4; H302 Skin Sens. 1; H317



		Eye Dam 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M=1
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Specific concentration limits of classification (CLP):

# Nitric acid

(5 =<C < 20) Skin Corr. 1B, H314 (C >= 20) Skin Corr. 1A, H314 (65 =<C < 99) Ox. Liq. 3, H272 (C >= 99) Ox. Liq. 2, H272

For full text of the H-statements see section 16 "Other information".

# **SECTION 4.** First aid measures

4.1 Description of first aid measures						
General:	In the least doubt or if symptoms persist, seek medical attention.					
Inhalation:	Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.					
Skin contact:	Wash with plenty of soap and water. Take off immediately all contaminated clothing. Get medical attention if any discomfort continues. Chemical burns must be treated by a physician. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.					
Eye contact:	Get medical advice/attention if you feel unwell. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.					
Ingestion:	DO NOT induce vomiting. Get medical attention immediately. Rinse nose, mouth and throat with water. Drink plenty of water. Get medical attention immediately!. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.					
4.2 Most important symptoms and effects, both acute and delayed						
Symptoms/effects after inhalation : Toxic if inhaled. Corrosive to the respiratory tract.						

Symptoms/effects after skin contact	: Causes severe skin burns and eye damage. May
Symptoms/effects after eye contact	cause an allergic skin reaction. : Causes serious eye damage.
Symptoms/effects after ingestion	: If ingested may cause corrosion of gastrointestinal tract.

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

Symptomatic treatment. Consult a doctor and show this safety data sheet.

# **SECTION 5. Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media: Use water fog, alcohol resistant foam, powder, or carbon dioxide.

Unsuitable extinguishing media: Water with a full water jet.

# 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Very corrosive gases/vapours/fumes. Nitrogen oxides.

# 5.3 Advice to firefighters

Do not enter fire area without proper personal protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Containers close to fire should be removed immediately or cooled with water. Fight fire remotely due to the risk of explosion.

Protection during firefighting

: Wear self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

# **SECTION 6. Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas. Avoid contact with skin and eyes. Use personal protective equipment as required. Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

Wear appropriate personal protective equipment - see Section 8. Keep public away from danger area.

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

# 6.2 Environmental precautions

Do NOT let waste or discharge to soil, water or air. Prevent discharges into sewers. Notify authorities if liquid enters sewers or public waters. Clean up spills at once.

# 6.3 Methods and material for containment and cleaning up

Dispose of at a licensed waste collection centre.

Take up liquid spill into absorbent material. Post clean with water. Never pour spill back in original packaging for reuse.

Dispose of materials or solid residues at an authorized site.

# 6.4 Reference to other sections

See Section 8 for personal protection and Section 13 for disposal considerations, respectively.

# **SECTION 7. Handling and storage**

# 7.1 Precautions for safe handling

Corrosive storage.

Do not breathe vapours, mist.

Avoid spilling, skin and eye contact. Use only well-ventilated area. Ensure adequate ventilation. NEVER pour water into this substance; when dissolving or diluting always add it slowly to the water.

Hygiene measures:

Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse.

# 7.2 Conditions for safe storage, including any incompatibilities

Comply with applicable regulations.

Keep cool. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materilas: Bases.

# 7.3 Specific end use(s)

See Section 1.2.

# SECTION 8. Exposure controls/personal protection

# 8.1 Control parameters

# **Occupational Exposure Limits**

The national occupational exposure limit values that correspond to Union occupational exposure limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(3) of Commission Decision 2014/113/EU(5);

Substances	ppm	mg/m <sup>3</sup>	Interval	Category	Notes
Nitric acid	-	-	8 hours	TWA	
Nitric acid	1	2,6	15 minutes	STEL	

# 8.2 Exposure control

Assigned personal protection equipment is a guideline. A risk assessment of actual risks may lead to other requirements.

# 8.2.1 Engineering controls

Work in a well-ventilated area. Mechanical ventilation of local exhaust may be required. Eye wash facilities and emergency shower must be available when handling this product.

# 8.2.2 Personal protection

Do not eat, drink or smoke when using this product. Wash hands after handling.





### 8.2.2.1 Eye protection

Wear protective googles according EN standard 166.

### 8.2.2.2 Hand protection

Use protective gloves according EN standard 374. Recommended glove barrier materials include nitrile rubber and butyl rubber:

Layer thickness: Nitrile/Neoprene rubber: >0,45 mm. Breakthrough time: >480 minutes. Layer thickness: Butyl rubber: >0,35 mm. Breakthrough time: >480 minutes.

### **Skin protection**

Wear protective clothes.

### 8.2.2.3 Respiratory protection

In case of inadequate ventilation, respiratory protection according EN standard 149 and EN 14387 (full-face mask with gas filter type B/P2) or breathing apparatus may be required.

### 8.2.2.4 Thermal hazard

No thermal hazard.

### 8.3 Environmental exposure control

See Section 6.2.

# **SECTION 9.** Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

а	Physical state	Liquid
b	Colour	Yellow
С	Odour/odour threshold	Stinging
d	Melting point/Freezing point	0°
е	Initial boiling point/boiling range	No data available/not applicable
f	Flammability (solid, gas)	No data available/not applicable
g	Lower and upper explosion limit	No data available/not applicable
h	Flash point	No data available/not applicable
i	Auto-ignition temperature	No data available/not applicable
j	Decomposition temperature	No data available/not applicable
k	рН	No data available/not applicable
I	Kinematic viscosity	No data available/not applicable
m	Solubility	Very soluble in water
n	Partition coefficient (n-octanol/water)	No data available/not applicable
0	Vapour pressure	No data available/not applicable
р	Density and/or relative density	1,09 g/cm <sup>3</sup>

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q	Relative vapour density	No data available/not applicable
r	Particle characteristics	No data available/not applicable

### 9.2 Other information

No more specific or information about safety characteristics.

# **SECTION 10. Stability and reactivity**

### **10.1 Reactivity**

Thermal decomposition generates : Corrosive vapours.

### 10.2 Chemical stability

Stable under recommended storage and usage conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. NEVER add water to acid!

### 10.4 Conditions to avoid

Avoid heat.

### 10.5 Incompatible materials

Bases.

# **10.6 Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : Corrosive vapours.

# **SECTION 11. Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological tests have been performed on the product. The product is classified as toxic if inhaled.

Estimated value of **ATE**: ATE oral: > 2000 mg/kg ATE dermal: >2000 mg/kg ATE inandning: 1-2 mg/l

### General toxicological information

Hazardous components CAS no.	Value Type	Value	Route of exposure	Exposur e time	Species	Method
Ammonium cerium (IV) nitrate	LD50	300-2000 mg/kg	Oral		Råtta	
Nitric acid	LC50	2,65 mg/l	Inhalation	4h/ vapour	Rat	



# Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity:	Toxic if inhaled.
Skin corrosion/irritation:	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation:	Causes serious eye damage.
Respiratory or skin sensitization:	May cause an allergic skin reaction.
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT – single exposure:	Not classified (corrosive to the respiratory tract)
STOT – repeated exposure:	Not classified
Aspiration hazard:	Not classified

### 11.2 Information on other hazards

This mixture does not contain substances at  $\geq 0,1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

# **SECTION 12. Ecological information**

### 12.1 Toxicity

No toxically tests has been made of the product itself. Classified as: Toxic to aquatic life with long lasting effects.

Hazardous components CAS no.	Value Type	Value	Route of Exposure	Exposure Time	Species	Method
Nitric acid	LC50	72 mg/l	Vatten	96 h	Fish	

### 12.2 Persistence and degradability

Components are biodegradable

### 12.3 Bioaccumulative potential

No bioaccumulation Log Pow: not determined.

Nitric acid	Log Pow	-23
	LOGION	2,0

### 12.4 Mobility in soil

Components are water soluble and may spread in water system and soil.

### 12.5 Results of PBT and vPvB assessment

The substance/mixture does not fulfil the criteria to be identified as PBT substance or vPvB substance.

# 12.6 Endocrine disrupted properties



This mixture does not contain substances at  $\geq 0,1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

### 12.7 Other adverse effects

No data available.

# **SECTION 13. Disposal considerations**

### 13.1 Waste treatment methods

Dispose according to Directive 2008/98/EC on waste (Waste Framework Directive) and in compliance with local and national legislation. Do not allow to enter sewers. Transfer to a waste container and send for destruction.

Packaging may still contain hazardous residues and disposal should be undertaken by a licensed waste contractor. Any disposal practice must comply with local and national laws and regulations.

### Suggested EWC codes

06 01 05\* Nitric acid and Nitrous acid 06 01 06\* Other acids.

# **SECTION 14. Transport information**

### 14.1 UN number

1760
1760
1760
1760

# 14.2 UN proper shipping name

ADR	CORROSIVE LIQUID, N.O.S (NITRIC ACID)
RID	CORROSIVE LIQUID, N.O.S (NITRIC ACID)
IMDG	CORROSIVE LIQUID, N.O.S (NITRIC ACID)
ICAO/IATA	CORROSIVE LIQUID, N.O.S (NITRIC ACID)

### 14.3 Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
ICAO/IATA	8

# 14.4 Packaging group

ADR	I
RID	1
IMDG	1
ICAO/IATA	I

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### 14.5 Environmental hazards

ADR	YES
RID	YES
IMDG	YES
ICAO/IATA	YES

# 14.6. Special precautions for user

<b>Overland transport</b> Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR)	: C9 : 274 : 0 : E <u>0</u>
	88 1760
Orange plates	1/00
EAC code APP code	: 2X : B
<b>Transport by sea</b> Special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage)	: 274 : F-A : S-B
<b>Air transport</b> PCA Excepted quantities (IATA) PCA Limited quantities (IATA) Special provisions (IATA)	: E0 : Forbidden : A3, A803
Inland waterway transport Classification code (ADN) Special provisions (ADN) Limited quantities (ADN) Excepted quantities (ADN)	: C9 : 274 : 0 : E0
<b>Rail transport</b> Special provisions (RID) Limited quantities (RID) Excepted quantities (RID)	: 274 : 0 : E0

# 14.7 Maritime transport in bulk according to IMO instruments.

Not applicable

# **SECTION 15. Regulatory information**

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

Regulation (EC) No 1272/2008 (CLP) of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures. Latest update of legal requirements 23/10/2024 of CLP regulation.

Regulation (EC) No 1907/2006 (REACH) of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and



Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EU) 2020/878 of the European Commission, supplement for REACH appendix II.

The national occupational exposure limit values that correspond to Union occupational exposure limit values in accordance with Directive 98/24/EC, including any notations as referred to in Article 2(3) of Commission Decision 2014/113/EU(5); EH40/2005: Workplace exposure limits updates 2020.

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

# **SECTION 16.** Other information

### Version: 5.2

New EU regulations (REACH/CLP) according SDS content/sections/tables and new SDS from raw data.

### **Explanations to abbreviations in Section 3**

Met Corr 1	May be corrosive to metals
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Ox. Liq. 2	Oxidising Liquids, Category 2
Ox. Liq. 3	Oxidising Liquids, Category 3
Ox. Sol. 3	Oxidising Solids, Category 3
Skin Sens 1A.	Skin Sensitisers, Category 1A
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Acute Tox 3	Acute Toxicity , Category 3
Acute Tox 4	Acute Toxicity , Category 4
Aquatic Acute 1	Hazardous to the aquatic environment , Category Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment Category Chronic 1
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life
H331	Toxic if inhaled.
H410	Very toxic to aquatic life with long lasting effects
EUH071	Corrosive to the respiratory tract.

### Explanations to abbreviations in Section 14

ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
RID	Règlement concernant le transport international ferroviaire de marchandises Dangereuses
	(Regulations concerning the International carriage of Dangerous goods by rail)
IMDG	IMDG code (International Maritime Dangerous Goods Code)
ICAO	International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec
	H3C 5H7, Canada)
IATA	International Air Transport Association

This safety data sheet has been produced and reviewed by Chemgroup Scandinavia AB.