

# **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/undertaking

1.1. Product identifier

Product form : Mixture

Product name : Nickelkromets - Kromets Sitek - MC2

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

Relevant identified uses

Main use category : Professional

use

Use of the substance/mixture : Electronics

chemical

Uses advised against

No additional information available

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

SupplierManufacturerSunchem ABSunchem ABBox 69Box 69

S-433 21 Partille Sweden S-433 21 Partille Sweden

T +46 31 447310 T +46 31 447310

purchasing@sunco.se - www.sunchem.se purchasing@sunco.se - www.sunchem.se

#### 1.4. Emergency telephone number

I amongoney to opine name or					
Country	Official advisory body		Emergency number	Comment	
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182 +44 191 2606180	Hours of operation: 24hrs	

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Skin Corr.1B	H314
Acute Tox. 3	H331
Skin Sens 1A	H317
Eye Dam. 1	H318
Aquatic Chronic 2	H411

Full text of hazard classes and H-statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

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#### 2.2. Label elements

## Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) :Danger

Contains :Ammonium cerium(IV) nitrate; nitric acid

Hazard statements (CLP) :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.

Precautionary statements (CLP) :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.

:EUH071 - Corrosive to the respiratory tract.

# EUH-statements 2.3. Other hazards

Other hazards which do not result in classification :None under normal conditions. This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

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## SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
nitric acid (Note B)	(CAS-No.) 7697-37-2 (EC-No.) 231-714-2 (EC Index-No.) 007-004-00-1 (REACH-no) 01-2119487297- 23	< 20	Ox. Liq. 2, H272 Skin Corr. 1A, H314 Acute Tox 3, H331
Ammonium cerium(IV) nitrate	(CAS-No.) 16774-21-3 (EC-No.) 240-827-6 (REACH-no) 01-2119971819- 18	10 – 15	Ox. Sol. 3, H272 Met Corr. 1, H290 Acute Tox 4, H302 Skin Sens 1A, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1; H410 M=1
Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
nitric acid	(CAS-No.) 7697-37-2 (EC-No.) 231-714-2 (EC Index-No.) 007-004-00-1 (REACH-no) 01-2119487297- 23	( 5 ≤C < 20) Skin Corr. 1B, H314 ( 20 ≤C < 100) Skin Corr. 1A, H314 ( 65 ≤C < 99) Ox. Liq. 3, H272 ( 99 ≤C < 100) Ox. Liq. 2, H272	

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Full text of H-statements: see section 16

## **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact

: Take off immediately all contaminated clothing. Wash with plenty of soap and water. Rinse skin with water/shower. Immediately call a

POISON CENTER/doctor.

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First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/doctor.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON

CENTER/doctor. Chemical burns must be treated by a physician.

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

Symptoms/effects : Causes severe skin burns and

eye damage.

Symptoms/effects after inhalation : Corrosive to the respiratory

tract

Symptoms/effects after eye contact : Causes serious eye damage.

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

Chemical burns must be treated by a physician. In case of accident or if you feel unwell, take contact with doctor and show this safety data sheet.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media :Use extinguishing media appropriate for surrounding fire.

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

Fire hazard : Non flammable.

Hazardous decomposition products in

case of fire

: Very corrosive gases/vapours/fumes. Nitrogen oxides.

#### 5.3. Advice for firefighters

Firefighting instructions : Do not enter fire area without proper personal protective equipment,

including respiratory protection (EN137). Exercise caution when fighting

any chemical fire. Containers close to fire should be removed

immediately or cooled with water. Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the

environment.

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

General measures : Ensure adequate ventilation, especially in confined areas. Avoid

contact with skin and eyes. Do not breathe vapour. Use personal

**6.1.1. For non-emergency personnel** protective equipment as required.

Protective equipment : Wear appropriate personal protective equipment - see Section 8.

Emergency procedures : Evacuate unnecessary personnel.

## 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

For further information refer to section 8: "Exposure controls/personal

protection". Equip cleanup and emergency crew with proper

protection.

Emergency procedures : Ventilate area.

## 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Clean up spills at once.

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

For containment : Collect all waste in suitable and labelled containers and dispose

according to local legislation.

Methods for cleaning up : Never pour spill back in original packaging for reuse.

. Soak up spills with inert solids, such as clay or diatomaceous earth

as soon as possible. Collect spillage. Store away from other

materials. Post clean with water.

#### 6.4. Reference to other sections

For further information refer to section 13. See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Corrosive storage.

Precautions for safe handling : Ensure adequate ventilation. Avoid inhalation of vapours. Never add

water to acid!. Do not breathe mist, spray, vapours. Avoid contact during

pregnancy/while nursing.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands

thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : 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. Keep container closed when not in

use.

Incompatible materials : Bases.

Packaging materials : Do not store in

corrodable metal.

7.3. Specific end

use(s) No additional

data.

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

# 8.1.1 National occupational exposure and biological limit values

nitric acid (7697-37-2)			
United Kingdom - Occupational Exposure Limits			
Local name	Nitric acid		
WEL STEL (OEL STEL)	2.6 mg/m³		
WEL STEL (OEL STEL) [ppm] 1 ppm			
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE			

## 8.1.2. Recommended monitoring procedures

No additional information available

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#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Eye wash facilities and emergency shower must be available when handling this product.

## 8.2.2. Personal protection equipment

#### Personal protective equipment:

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment. Avoid all unnecessary exposure. Gloves. Protective goggles.







## 8.2.2.1. Eye and face protection

## Eye protection:

Chemical goggles or face shield. STANDARD EN 166.

#### 8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

#### Hand protection:

Wear protective gloves. Viton. 4H. Neoprene. Butyl rubber. Breakthrough time: 6 (> 480 minutes). Layer thickness: 0,2 - 0,4 mm. STANDARD EN 374.

## 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Use respiratory equipment with

combination filter, type B/P2. EN 14387 8.2.2.4. Thermal hazards

No additional information available

## 8.2.3. Environmental exposure controls

#### Other information:

Do not eat, drink or smoke during use.

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

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

Physical state : Liquid Colour : Yellow.

Odour : Stinging. slight.
Odour threshold : Not determined.
Melting point : Not determined.

Freezing point : 0 °C

Boiling point : Not determined.
Flammability : Non flammable.
Explosive properties : Product is not

explosive.

Oxidising properties : Non flammable. **Explosive limits** : Not determined. Lower explosive limit (LEL) : Not available Upper explosive limit (UEL) : Not available Flash point : Not determined. Auto-ignition temperature : Not determined. Decomposition temperature : Not determined. pН : Not available Viscosity, kinematic : Not available Solubility : Very soluble in

water.

: Not available

Partition coefficient n-octanol/water (Log

Kow)

Partition coefficient n-octanol/water (Log : Not determined.

Pow)

Vapour pressure : Not determined.
Vapour pressure at 50 °C : Not available
Density : 1.09 g/cm³ @ 20

°C

Relative density : Not determined. Relative vapour density at 20 °C : Not determined. Particle size : Not applicable Particle size distribution : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable Particle aggregation state : Not applicable Particle agglomeration state : Not applicable Particle specific surface area : Not applicable Particle dustiness : Not applicable

## 9.2. Other information

## 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

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Thermal decomposition generates: Corrosive vapours.

#### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid strong heating.

#### 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

Not classified Acute toxicity (oral) Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Toxic if inhaled

> ATE oral: > 2000 mg/kg ATE dermal > 2000 mg/kg ATE inhalation: Ca 1-2 mg/l (4h)

Ammoniumcerium(IV)nitrate (16774-21-3)				
LD50 oral rat 300-2000 mg/kg				
Nitric acid (7697-37-2)				
LC50 inhalation rat (vapour - mg/l/4h)	0,18 mg/l/4u			

Skin corrosion/irritation Causes severe skin burns. Serious eye damage/irritation Causes serious eye damage. Respiratory or skin sensitisation May cause an allergic skin reaction. Additional information

Based on available data, the classification criteria are not met

Germ cell mutagenicity Not classified

Additional information Based on available data, the classification criteria are not met

Carcinogenicity Not classified

Additional information Based on available data, the classification criteria are not met

Reproductive toxicity Not classified

Additional information Based on available data, the classification criteria are not met

STOT-single exposure Not classified

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Additional information : Corrosive to the respiratory tract.

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

11.2.2 Other information

Potential adverse human health effects and symptoms

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU)

2017/2100 or Commission Regulation (EU) 2018/605

Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

#### 12.1. Toxicity

Hazardous to the aquatic environment,

short-term (acute)

Hazardous to the aquatic environment,

long-term (chronic)

Not classified

Toxic to aquatic life with long lasting effects.

nitric acid (7697-37-2)	
LC50 - Fish [1]	72 mg/l (96 hours - Gambusia affinis - Mosquito fish)

#### 12.2. Persistence and degradability

Nickelkromets - Kromets Sitek - MC2	
Persistence and degradability	Componet(s) are biodegradable.

#### 12.3. Bioaccumulative potential

Nickelkromets - Kromets Sitek - MC2		
Partition coefficient n-octanol/water (Log Pow)	Not determined.	
Bioaccumulative potential	Not potentially bioaccumulable.	

nitric acid (7697-37-2)	
Partition coefficient n-octanol/water (Log Pow)	-2.3

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## 12.4. Mobility in soil

Nickelkromets - Kromets Sitek - MC2	
Ecology - soil	The product is water soluble and may spread in water systems.

#### 12.5. Results of PBT and vPvB assessment

## Nickelkromets - Kromets Sitek - MC2

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

# 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

Other adverse effects : None to our knowledge.

Additional information : Avoid release to the environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional legislation (waste) : Dispose as hazardous waste.

Waste treatment methods : Do not discharge into drains.

Product/Packaging disposal : Dispose in a safe manner in accordance with local/national regulations.

recommendations

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

Additional information

: The given LoW-code is a guiding, and the code depends on how the waste is formed. User must evaluate the choice of correct code.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 06 01 05\* - nitric acid and nitrous acid

06 01 06\* - other acids

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID /

ADR	IMDG	IATA	ADN	RID	
14.1. UN number or ID number					
UN 1760	UN 1760	UN 1760	UN 1760	UN 1760	
14.2. UN proper shipping name					
CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.	Corrosive liquid, n.o.s. (nitric acid)	CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.	
(nitric acid) (nitric acid) (nitric acid) (nitric acid)  Transport documentn descripti					
UN 1760 CORROSIVE LIQUID,	*	liquid, n.o.s.	LIQUID,	UN 1760 CORROSIVE LIQUID,	
	N.O.S. (nitric acid), 8, I	(nitric acid), 8, I	N.O.S. (nitric acid), 8, I	N.O.S. (nitric acid), 8, I	

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N.O.S. (nitric acid), 8, I, (E)				
14.3. Transport hazard class(e	s)			
8	8	8	8	8
8	8	8	8	8
14.4. Packing group				
I	I	I	1	I
14.5. Environmental hazards				
Dangerous for the environment : YES	Dangerous for the environment : YES Marine pollutant: YES	Dangerous for the environment : YES	Dangerous for the environment : YES	Dangerous for the environment : YES
No supplementary infor	mation available		•	

# 14.6. Special precautions for user

# **Overland transport**

Classification code (ADR) : C9
Special provisions (ADR) : 274
Limited quantities (ADR) : 0
Excepted quantities (ADR) : E0

88 1760

Orange plates : EAC code : 2X APP code : B

Transport by sea

Special provisions (IMDG) : 274 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-B

Air transport

PCA Excepted quantities (IATA) : E0

PCA Limited quantities (IATA) : Forbidden Special provisions (IATA) : A3, A803

Inland waterway transport

Classification code (ADN) : C9
Special provisions (ADN) : 274
Limited quantities (ADN) : 0
Excepted quantities (ADN) : E0

Rail transport

Special provisions (RID) : 274 Limited quantities (RID) : 0 Excepted quantities (RID) : E0

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Hazard identification number (RID)

14.7. Maritime transport in bulk according to IMO instruments

IBC code :No IBC-code for bulk transport offshore (MARPOL).

## **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

## 15.1.2. National regulations

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 15.2. Chemical safety assessment No chemical safety assessment has been carried out

## **SECTION 16: Other information**

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE Data sources COUNCIL of 16 December 2008 on

classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No

1907/2006.

Other information : None.

#### Full text of H- and EUH-statements:

Met Corr 1 May be corrosive to metals

Serious eye damage/eye irritation, Category 1 Eye Dam. 1

Oxidising Liquids, Category 2 Ox. Liq. 2 Oxidising Liquids, Category 3 Ox. Liq. 3 Ox. Sol. 3 Oxidising Solids, Category 3

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

Hazardous to the aquatic environment, Category Acute 1 Aquatic Acute 1 Aquatic Cronic 1 Hazardous to the aquatic environment Category Chronic 1

Skin Sens 1A Skin Sensitysers, Category 1, Sub-Category 1A

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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.

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