



## Safety Data Sheet according to (EC) No 1907/2006

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SDS No. : 169437  
V004.3

BONDERITE C-AK 5279 A AERO known as TURCO 5279 A

Revision: 29.05.2015  
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Replaces version from: 14.01.2014

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

#### 1.1. Product identifier

BONDERITE C-AK 5279 A AERO known as TURCO 5279 A

#### Contains:

Silicic acid, potassium salt 2.55

2-Propenoic acid, methyl ester, reaction products with 2-ethyl-1-hexanamine and sodium hydroxide

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

Intended use:

Cleaners for Industrial Application

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

Henkel Ltd

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000

Fax-no.: +44 1442 278071

ua-productsafety.uk@uk.henkel.com

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

|| Skin corrosion

Category 1A

|| H314 Causes severe skin burns and eye damage.

#### 2.2. Label elements

##### Label elements (CLP):

|| Hazard pictogram:



|| Signal word:

Danger

**Hazard statement:** H314 Causes severe skin burns and eye damage.

**Precautionary statement:** P260 Do not breathe mist/spray.  
**Prevention** P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement:** P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
**Response** 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.

### 2.3. Other hazards

None if used properly.

The classification as corrosive R35/H314 1A is due to the extreme pH.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Trisodium nitrilotriacetate 5064-31-3	225-768-6 01-2119519239-36	1- 5 %	Carc. 2 H351 Acute Tox. 4; Oral H302 Eye Irrit. 2 H319
Silicic acid, potassium salt 2.55 1312-76-1	215-199-1	1- 5 %	Skin Irrit. 2; Dermal H315 Eye Dam. 1 H318 STOT SE 3; Inhalation H335
Tetrapotassium pyrophosphate 7320-34-5	230-785-7 01-2119489369-18	20- 40 %	Eye Irrit. 2 H319
2-Propenoic acid, methyl ester, reaction products with 2-ethyl-1-hexanamine and sodium hydroxide 68610-44-6	271-865-1, 271- 865-1	1- 5 %	Eye Dam. 1 H318

For full text of the H - statements and other abbreviations see section 16 "Other information".  
Substances without classification may have community workplace exposure limits available.

#### Declaration of ingredients according to Detergent Regulation 648/2004/EC

15 - 30 % phosphates  
< 5 % NTA (Nitrilotriacetic acid) and salts thereof  
soap  
amphoteric surfactants

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation:

Fresh air, consult doctor.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.  
Seek medical advice.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

Causes burns.

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

See section: Description of first aid measures

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable extinguishing media:**

All common extinguishing agents are suitable.

**Extinguishing media which must not be used for safety reasons:**

None known

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

Formation of toxic gases is possible during heating or in fires.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus.

Wear protective equipment.

**Additional information:**

In case of fire, keep containers cool with water spray.

## SECTION 6: Accidental release measures

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

Avoid contact with skin and eyes.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

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

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**

See advice in section 8

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Ensure that workrooms are adequately ventilated.

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Keep away from food, beverages and animal feed.

Wash contaminated clothing before reuse.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

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

Store only in the original container.

Do not store in aluminium, brass, tin, zinc, lead and copper containers because contact may produce hydrogen gas.

Keep container in a well ventilated place.

Keep container tightly sealed.

Store in a cool, frost-free place.

Must be stored in a room with spill collection facilities.

Do not store together with strong acids.

**7.3. Specific end use(s)**

Cleaners for Industrial Application

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational Exposure Limits**

Valid for  
Great Britain

None

**Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Trisodium nitrilotriacetate 5064-31-3	aqua (freshwater)					0,93 mg/L	
Trisodium nitrilotriacetate 5064-31-3	aqua (marine water)					0,093 mg/L	
Trisodium nitrilotriacetate 5064-31-3	aqua (intermittent releases)					0,915 mg/L	
Trisodium nitrilotriacetate 5064-31-3	STP					540 mg/L	
Trisodium nitrilotriacetate 5064-31-3	sediment (freshwater)				3,64 mg/kg		
Trisodium nitrilotriacetate 5064-31-3	sediment (marine water)				0,364 mg/kg		
Trisodium nitrilotriacetate 5064-31-3	soil				0,182 mg/kg		
Trisodium nitrilotriacetate 5064-31-3	oral				0,2 mg/kg		
Tetrapotassium pyrophosphate 7320-34-5	aqua (freshwater)					0,05 mg/L	
Tetrapotassium pyrophosphate 7320-34-5	aqua (marine water)					0,005 mg/L	
Tetrapotassium pyrophosphate 7320-34-5	aqua (intermittent releases)					0,5 mg/L	
Tetrapotassium pyrophosphate 7320-34-5	STP					50 mg/L	

**Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Trisodium nitrilotriacetate 5064-31-3	Workers	Inhalation	Acute/short term exposure - systemic effects		5,25 mg/m <sup>3</sup>	
Trisodium nitrilotriacetate 5064-31-3	Workers	Inhalation	Acute/short term exposure - local effects		5,25 mg/m <sup>3</sup>	
Trisodium nitrilotriacetate 5064-31-3	Workers	Inhalation	Long term exposure - systemic effects		3,5 mg/m <sup>3</sup>	
Trisodium nitrilotriacetate 5064-31-3	Workers	Inhalation	Long term exposure - local effects		3,5 mg/m <sup>3</sup>	
Trisodium nitrilotriacetate 5064-31-3	general population	Inhalation	Acute/short term exposure - systemic effects		1,75 mg/m <sup>3</sup>	
Trisodium nitrilotriacetate 5064-31-3	general population	Inhalation	Acute/short term exposure - local effects		1,75 mg/m <sup>3</sup>	
Trisodium nitrilotriacetate 5064-31-3	general population	oral	Long term exposure - systemic effects		0,5 mg/kg bw/day	
Tetrapotassium pyrophosphate 7320-34-5	Workers	Inhalation	Long term exposure - systemic effects		2,79 mg/m <sup>3</sup>	
Tetrapotassium pyrophosphate 7320-34-5	general population	Inhalation	Long term exposure - systemic effects		0,68 mg/m <sup>3</sup>	
Tetrapotassium pyrophosphate 7320-34-5	general population	oral	Long term exposure - systemic effects		70 mg/kg bw/day	

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Engineering controls:

Ensure good ventilation/suction at the workplace.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter. This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.

Skin protection:

Protective clothing that covers arms and legs.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Appearance	liquid clear light yellow
Odor	no valuation
Odour threshold	No data available / Not applicable
pH (20 °C (68 °F); Conc.: 1,0 Weight%; Solvent: Water)	10,3 - 11,4
pH (20 °C (68 °F); Conc.: 100,0 % product)	12,6
Initial boiling point	100 °C (212 °F)
Flash point	Aqueous solution
Decomposition temperature	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Density (20 °C (68 °F))	1,325 - 1,345 g/cm <sup>3</sup>
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Miscible
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	No data available / Not applicable
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable

**9.2. Other information**

No data available / Not applicable

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reaction with strong acids.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

See section reactivity

**10.4. Conditions to avoid**

No decomposition if used according to specifications.

**10.5. Incompatible materials**

See section reactivity

**10.6. Hazardous decomposition products**

None if used for intended purpose.

In case of fire toxic gases can be released.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

The classification as corrosive R35/H314 1A is due to the extreme pH.

#### Skin irritation:

Causes severe skin burns and eye damage.

#### Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Trisodium nitrilotriacetate 5064-31-3	LD50	1.450 mg/kg	oral		rat	FIFRA/TSCA Guideline
Tetrapotassium pyrophosphate 7320-34-5	LD50	> 2.000 mg/kg	oral		mouse	
2-Propenoic acid, methyl ester, reaction products with 2-ethyl-1- hexanamine and sodium hydroxide 68610-44-6	LD50	> 2.000 mg/kg	oral		mouse	

#### Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Trisodium nitrilotriacetate 5064-31-3	LC50	> 5 mg/l		4 h	rat	

#### Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method

#### Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Trisodium nitrilotriacetate 5064-31-3	not irritating		rabbit	BASF Test
Trisodium nitrilotriacetate 5064-31-3	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

#### Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Trisodium nitrilotriacetate 5064-31-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		

## SECTION 12: Ecological information

### General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Do not empty into drains / surface water / ground water.

Locally harmful for aquatic and landliving organisms because of high pH and corrosive properties.

Contains phosphate, may fertilize watercourses.

### Other adverse effects:

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

### 12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Trisodium nitrilotriacetate 5064-31-3	NOEC	75 mg/l	Fish	30 d	Pimephales promelas	OECD 210 (fish early lite stage toxicity test)
	LC50	476 mg/l	Fish	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Trisodium nitrilotriacetate 5064-31-3	EC50	1.000 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Trisodium nitrilotriacetate 5064-31-3	EC50	> 185 mg/l	Algae			OECD Guideline 201 (Alga, Growth Inhibition Test)
Trisodium nitrilotriacetate 5064-31-3	NOEC	100 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Tetrapotassium pyrophosphate 7320-34-5	LC50	> 750 mg/l	Fish	48 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Propenoic acid, methyl ester, reaction products with 2- ethyl-1-hexanamine and sodium hydroxide 68610-44-6	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

### 12.2. Persistence and degradability

#### Persistence and degradability:

#### Degradation of surfactants

The biodegradability of the surfactants contained in the product is in accordance with the requirements of the EU Detergent Regulation (EC/648/2004).

The surfactants contained in the products are primary biodegradable to at least 90% on average.

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Trisodium nitrilotriacetate 5064-31-3	readily biodegradable	aerobic	82 - 86 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)

### 12.3. Bioaccumulative potential / 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB



Trisodium nitrilotriacetate 5064-31-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Tetrapotassium pyrophosphate 7320-34-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### 12.6. Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

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**SECTION 14: Transport information****14.1. UN number**

ADR	1760
RID	1760
ADN	1760
IMDG	1760
IATA	1760

**14.2. UN proper shipping name**

ADR	CORROSIVE LIQUID, N.O.S. (Nitrilotriaceticacid, sodium salt)
RID	CORROSIVE LIQUID, N.O.S. (Nitrilotriaceticacid, sodium salt)
ADN	CORROSIVE LIQUID, N.O.S. (Nitrilotriaceticacid, sodium salt)
IMDG	CORROSIVE LIQUID, N.O.S. (Nitrilotriaceticacid, sodium salt)
IATA	Corrosive liquid, n.o.s. (Nitrilotriaceticacid, sodium salt)

**14.3. Transport hazard class(es)**

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

**14.4. Packaging group**

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

**14.5. Environmental hazards**

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

**14.6. Special precautions for user**

ADR	not applicable Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	IMDG-Code: Segregation group 18- Alkalis
IATA	not applicable

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

VOC content 0,0 %  
(1999/13/EC)

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**National regulations/information (Great Britain):**

Remarks	Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, e.g COSHH Essentials. EH40 Occupational Exposure Limits Chemicals (Hazard Information & Packaging for Supply) Regulations. The Personnel Protective Equipment at Work Regulations. The Carriage of Dangerous Goods by Road Regulations. The Health & Safety at Work Act 1974. (Note: Use latest editions/amendments of above referenced documents.)
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**SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.

**Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

**Label elements (DPD):**

C - Corrosive



**Risk phrases:**

R35 Causes severe burns.

**Safety phrases:**

- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.**