

**SAFETY DATA SHEET**

according to 1907/2006/EC, Article 1

Revision: 30.05.2015

Printing date: 27.02.2017

Version number 001.3

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE  
AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

**Trade name** Grato 14 Marine VT200KG  
**Index number** SDS No. : 47303

**Contains**

Fatty alcohol ethoxylate C8

**Relevant identified uses of the substance or mixture and uses advised against****Intended use: Cleaners for industrial metal working****Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Henkel Belgium N.V.  
Esplanade 1  
1020 Brussels  
Belgium  
Phone: +32 (2) 421 2711  
Fax-no.: +32 (2) 420 7025  
ua-productsafety.de@henkel.com

**Emergency telephone number:**

The Henkel information service also provides an around-the-clock telephone service  
on phone no.+49-(0)211-797-3350 for exceptional cases.

**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.

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### 2.2 Label elements / Hazard pictogram



<b>Signal word:</b>	Danger
<b>Hazard statement:</b>	H314 Causes severe skin burns and eye damage.
<b>Precautionary statement:</b>	P260 Do not breathe mist/spray.
<b>Prevention</b>	P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary statement:</b>	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
<b>Response</b>	Rinse skin with water/ shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. 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
Fatty alcohol ethoxylate C8 27252-75-1	500-058-1	1- 5 %	Eye Dam. 1 H318
Tripotassium orthophosphate 7778-53-2	231-907-1	1- 5 %	Skin Irrit. 2; Dermal H315 Eye Irrit. 2 H319

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**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**

< 5 %                    non-ionic surfactants  
                             phosphates  
                             NTA (Nitrilotriacetic acid) and salts thereof

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures**Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.  
If necessary, see a dermatologist.

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**

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**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 protective equipment.

Wear self-contained breathing apparatus.

**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**

When diluting, always stir slowly the product into standing water.

See advice in section 8

Hygiene measures:

Wash contaminated clothing before reuse.

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

Store only in the original container.  
Do not use packing made of metal.  
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 metal working

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for Germany

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		

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## 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/m3	
Trisodium nitrilotriacetate 5064-31-3	Workers	Inhalation	Acute/short term exposure - local effects		5,25 mg/m3	
Trisodium nitrilotriacetate 5064-31-3	Workers	Inhalation	Long term exposure - systemic effects		3,5 mg/m3	
Trisodium nitrilotriacetate 5064-31-3	Workers	Inhalation	Long term exposure - local effects		3,5 mg/m3	
Trisodium nitrilotriacetate 5064-31-3	general population	Inhalation	Acute/short term exposure - systemic effects		1,75 mg/m3	
Trisodium nitrilotriacetate 5064-31-3	general population	Inhalation	Acute/short term exposure - local effects		1,75 mg/m3	
Trisodium nitrilotriacetate 5064-31-3	general population	oral	Long term exposure - systemic effects		0,5 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

Tightly fitting safety goggles.

## Skin protection

Protective clothing that covers arms and legs.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance	liquid / clear / colourless
Odor	no valuation
Odour threshold	No data available / Not applicable
pH (20 °C (68 °F); Conc.: 1 %; Solvent: water)	10,9 - 11,5
pH (20 °C (68 °F); Conc.: 100 % product)	12,1
Initial boiling point	> 100 °C (> 212 °F)
Flash point	Not applicable
Decomposition temperature	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Density (20 °C (68 °F))	1,030 - 1,090 g/cm <sup>3</sup>
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic) (20 °C (68 °F); )	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Soluble
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**

Reacts with acids: Heat released.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

See section reactivity

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## 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.

## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

General toxicological information:

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

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.

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
Fatty alcohol ethoxylate C8	LD50	> 2.000 mg/kg	oral		rat	
27252-75-1 Tripotassium orthophosphate 7778-53-2	LD50	2.000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

**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	

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### 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:

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

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.

### 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.

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### 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)
Fatty alcohol ethoxylate C8 27252-75-1	LC50	38 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	
Fatty alcohol ethoxylate C8 27252-75-1	EC50	71 mg/l	Daphnia	24 h	Daphnia magna	
Tripotassium orthophosphate 7778-53-2	LC50	> 900 mg/l	Fish	48 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)

### 12.2. 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.

#### Ultimate biodegradation:

Readily and rapidly degradable. All organic substances contained in the product achieve > 60% BOD/ COD or CO<sub>2</sub> liberation, or > 70% DOC reduction in tests for ease of degradability. Threshold values for 'readily degradable' (e.g. to OECD method 301) are reached.

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)
Fatty alcohol ethoxylate C8 27252-75-1	readily biodegradable	aerobic	76 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)

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### 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.
Fatty alcohol ethoxylate C8 27252-75-1	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

070601

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.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

ADR 1760

RID 1760

ADN 1760

IMDG 1760

IATA 1760

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**14.2. UN proper shipping name**

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

**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

**CP METAL CHEMICALS B.V.**

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IBAN NL88RABO0158447018 / RABONL2U  
TRADEREGISTER KVK 24225479  
VAT NL008191402B01

On all transport activities, the General Transportation Conditions for national transport of goods apply, as deposited by the registry of the district counties of Rotterdam and Amsterdam. All transports across borders are subject to the NIWO and CMR conditions. All shipping activities are subject to FENEX conditions. Insurance is never included with the freight. The NOB General Payment Conditions apply to payments of all our activities. The NOB General Payment Conditions can be found on our website.

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**SECTION 15: REGULATORY INFORMATION**

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

VOC content 0 %  
(1999/13/EC)

**15.2. Chemical safety assessment****A chemical safety assessment has not been carried out.****National regulations/information (Germany):**

WGK: WGK = 2, water endangering product. Classification  
according to the mixture rules in German VwVwS regulation  
annex 4 from 27.July 2005.

Storage class according to TRGS 510: 8B

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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.
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.**

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