

SDS No. : 585498

## SAFETY DATA SHEET

Revision: 31.10.2016 Printing date: 25.01.2017 Version number 1

according to 1907/2006/EC, Article 1

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## 1.1. Product identifier

Trade nameGRATO 1 MARINEIndex numberSDS No. : 585498

### Contains

Alcohols, C9-11-iso-, C10-rich, 7EO Alcohols, C12-18, ethoxylated

**Relevant identified uses of the substance or mixture and uses advised against** Intended use: Cleaners for Industrial Application

## Details of the supplier of the safety data sheet Manufacturer/Supplier:

Henkel Belgium N.V. Havenlaan 16 1080 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): Serious eye damage H318 Causes serious eye damage. Acute toxicity H302 Harmful if swallowed. Route of Exposure: Oral

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Category 1

Category 4



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### 2.2 Label elements / Hazard pictogram



Signal word:	Danger				
Hazard statement:	H302 Harmful if swallowed.				
	H318 Causes serious eye damage.				
Precautionary statement:					
Prevention	P280 Wear eye protection/face protection.				
Precautionary statement:					
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.				
	P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor				
	if you feel unwell.				

#### 2.3 Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8		10-< 20 %	Acute Tox. 4 H302 Eye Dam. 1 H318
Alcohols, C12-18, ethoxylated 68213-23-0	500-201-8	1-< 5%	Acute Tox. 4 H302 Eye Dam. 1 H318 Aquatic Chronic 3 H412

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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

15-30% non-ionic surfactants

### **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. In case of adverse health effects seek medical advice.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

## 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

EYE: Irritation, conjunctivitis. INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

### 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: Carbon dioxide, foam, powder Water spray jet

Extinguishing media which must not be used for safety reasons: High pressure waterjet

**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:

Cool endangered containers with water spray jet.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures Avoid skin and eye contact.Danger of slipping on spilled product.

## **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

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6.2.

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#### SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Avoid skin and eye contact.
Ensure that workrooms are adequately ventilated.
See advice in section 8

#### Hygiene measures:

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke when using this product. The workplace should be equipped with an emergency shower and eye-rinsing facility.

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

Store in sealed original container. Temperatures between 0 °C and + 40 °C

### 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 Germany None

## **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 (EN 14387).

This recommendation should be matched to local conditions.

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### 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) 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. Protective eye equipment should conform to EN166.

### Skin protection:

Suitable protective clothing Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

#### Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on basic physical and chemical properties

Appearance	liquid, clear, colourless to yellowish
Odor	characteristic
Odour threshold	No data available / Not applicable
pH (20 °C (68 °F); Conc.: 100 % product)	7,5-8,1
Initial boiling point	100 °C (212 °F)
Flash point	No flash point up to 100 °C
Decomposition temperature	No data available / Not applicable

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

Vapour pressure (50 °C (122 °F))	Values referring to water
Density (20 °C (68 °F))	1,05 - 1,10 g/cm3
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))	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

Reaction with strong oxidants.

### 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.

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### 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 (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

#### **Oral toxicity:**

Harmful if swallowed.

#### Eye irritation:

Causes serious eye damage.

Acute oral toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Alcohols, C9-11-iso-,	LD50	300 - 2.000	oral		rat	not specified
C10-rich, 7EO		mg/kg				
78330-20-8						

#### Acute inhalative toxicity:

Hazardous componentsValueValueRoute ofExposureSpeciesMethodCAS-No.typeapplicationtime		Method	Metho	Species	<b>L</b>		Value		CLCN
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Acute dermal toxicity:

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

### 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 (EC) No 1272/2008. 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.

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## 12.1 Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Alcohols, C9-11-iso-, C10- rich, 7EO 78330-20-8	LC50	> 1 - 10 mg/l	Fish	96 h	Cyprinus carpio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Alcohols, C9-11-iso-, C10- rich, 7EO 78330-20-8	EC50	> 1 - 10 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols, C9-11-iso-, C10- rich, 7EO 78330-20-8	EC50	> 1 - 10 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C12-18, ethoxylated 68213-23-0 Alcohols, C12-18, ethoxylated 68213-23-0	LC50 EC50	1,7 mg/l 2,7 mg/l	Fish Daphnia	96 h 48 h	Brachydanio rerio (new name: Danio rerio) Daphnia magna	ISO 7346-1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton- Buchanan (Teleostei, Cyprinidae)] OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols, C12-18, ethoxylated 68213-23-0	EC50	1,5 mg/l	Algae	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Alcohols, C12-18, ethoxylated 68213-23-0	EC0	1.000 mg/l	Bacteria	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)
Alcohols, C12-18, ethoxylated 68213-23-0	NOEC	> 0,1 - 1 mg/l	chronic Daphnia	21 d	Daphnia sp.	OECD 211 (Daphnia magna, Reproduction 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.

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		
Alcohols, C9-11-iso-, C10-	readily biodegradable	not specified	> 60 %	OECD Guideline 301 B (Ready
rich, 7EO		-		Biodegradability: CO2 Evolution
78330-20-8				Test)
Alcohols, C12-18, ethoxylated	readily biodegradable	aerobic	77 %	EU Method C.4-E (Determination
68213-23-0				of the "Ready"
				BiodegradabilityClosed 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. Alcohols, C12-18, ethoxylated 68213-23-0

PBT/vPvB

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. EWC/EAK 070608

## SECTION 14: TRANSPORT INFORMATION

- 14.1. UN number Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
  14.2. UN proper shipping name Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
  14.3. Transport hazard class(es) Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
  14.4. Packing group Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

- 14.6. Special precautions for user
  - Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not applicable

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SECTI	ON 15: REGULATORY INFORMATION	
15.1.	Safety, health and environmental regula	ations/legislation specific for the substance or mixture
	VOC content (2010/75/EU)	0%
15.2.	Chemical safety assessment	
	A chemical safety assessment has not b	een carried out.
	National regulations/information (Germ	nany):
	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:	10
SECTI	ON 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.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

#### **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.

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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