

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/01/2022

Reviewed on 03/01/2022

### 1 Identification

#### Product identifier

Trade name: **Graconol**

Article number: 3010-0567

Application of the substance / the mixture  
Lubricant  
Cleaning material/ Detergent

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

Manufacturer/Supplier: Hersteller/Manufacturer:  
Graichen Produktions- und Vertriebs-GmbH  
Darmstädter Str. 127  
D-64625 Bensheim  
Tel.: +49(0)6251 / 7707880  
Fax: +49(0)6251 / 77901  
e-mail: ehs@graichen-bensheim.de  
http://www.graichen.net

Information department: Environment protection department

Emergency telephone number: Advice centre for poisoning university Mainz phone +49(0)6131/19240  
or poison information: +49(0)700/GIFTINFO

### 2 Hazard(s) identification

#### Classification of the substance or mixture

Flammable Liquids 2 H225 Highly flammable liquid and vapor.  
Carcinogenicity 1A H350 May cause cancer.

#### Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

#### Hazard pictograms



GHS02 GHS08

#### Signal word

Danger

#### Hazard-determining components of labeling:

#### Hazard statements

ethanol  
Highly flammable liquid and vapor.  
May cause cancer.

#### Precautionary statements

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If exposed or concerned: Get medical advice/attention.  
In case of fire: Use CO2, powder or water spray to extinguish.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Information pertaining to particular dangers for man and environment:

#### NFPA ratings (scale 0 - 4)



Health = 0  
Fire = 3  
Reactivity = 0

#### HMIS-ratings (scale 0 - 4)



Health = \*0  
Fire = 3  
Reactivity = 0

#### Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.  
vPvB: Not applicable.

(Contd. on page 2)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/01/2022

Reviewed on 03/01/2022

Trade name: Graconol

(Contd. of page 1)

## 3 Composition/information on ingredients

### Chemical characterization: Mixtures

#### Dangerous components:

CAS: 64-17-5	ethanol	50 – 100%
	Flammable Liquids 2, H225; Carcinogenicity 1A, H350	
CAS: 78-93-3	butanone	< 2.5%
	Flammable Liquids 2, H225; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	

Additional information: For the wording of the listed hazard phrases refer to section 16.

## 4 First-aid measures

### Description of first aid measures

#### General information:

Take affected persons out of danger area and lay down.

Personal protection for the First Aider.

#### After inhalation:

Take affected persons into fresh air and keep quiet.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

#### After skin contact:

If skin irritation continues, consult a doctor.

Immediately rinse with water.

#### After eye contact:

Rinse opened eye for several minutes under running water.

Protect unharmed eye.

Call a doctor immediately.

#### After swallowing:

Rinse out mouth and then drink plenty of water.

Immediately call a doctor.

A person vomiting while lying on their back should be turned onto their side.

Do not induce vomiting; immediately call for medical help.

#### Information for doctor:

Most important symptoms and effects, both acute and delayed

Gastric or intestinal disorders

Nausea

Dizziness

Unconsciousness

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

#### For safety reasons unsuitable extinguishing agents:

Water in the full ray

### Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

In case of fire, the following can be released:

Carbondioxid (CO2)

Carbon monoxide (CO)

### Advice for firefighters

Gefährdete Behälter mit wasser kühlen. Kontaminiertes Löschwasser entsprechend den behördlichen Vorschriften entsorgen.

#### Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Ensure adequate ventilation

Keep people at a distance and stay upwind.

### Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

In case of seepage into the ground inform responsible authorities.

### Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the collected material according to regulations.

Ensure adequate ventilation.

### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

(Contd. on page 3)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/01/2022

Reviewed on 03/01/2022

Trade name: Graconol

(Contd. of page 2)

## Protective Action Criteria for Chemicals

### PAC-1:

CAS: 64-17-5	ethanol	1,800 ppm
CAS: 78-93-3	butanone	200 ppm
CAS: 67-63-0	propan-2-ol	400 ppm

### PAC-2:

CAS: 64-17-5	ethanol	3300* ppm
CAS: 78-93-3	butanone	2700* ppm
CAS: 67-63-0	propan-2-ol	2000* ppm

### PAC-3:

CAS: 64-17-5	ethanol	15000* ppm
CAS: 78-93-3	butanone	4000* ppm
CAS: 67-63-0	propan-2-ol	12000** ppm

## 7 Handling and storage

### Handling:

- Precautions for safe handling: Keep receptacles tightly sealed.  
Ensure good ventilation/exhaustion at the workplace.  
Ensure that suitable extractors are available on processing machines.  
Use only in well ventilated areas.  
Prevent formation of aerosols.

- Information about protection against explosions and fires: Use only in explosion protected area.  
Fumes can combine with air to form an explosive mixture.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

### Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and receptacles: Provide solvent resistant, sealed floor.  
Store in a cool location.
- Information about storage in one common storage facility: Store away from foodstuffs.  
Store away from oxidizing agents.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.  
Store receptacle in a well ventilated area.
- Specific end use(s): No further relevant information available.

## 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.

### Control parameters

- Components with limit values that require monitoring at the workplace:

#### CAS: 64-17-5 ethanol

PEL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV	Short-term value: 1000 ppm
A3	

#### CAS: 78-93-3 butanone

PEL	Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm
	Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
TLV	Short-term value: 300 ppm
	Long-term value: 200 ppm
BEI	

- Ingredients with biological limit values:

#### CAS: 78-93-3 butanone

BEI	2 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Methyl ethyl ketone (nonspecific)

- Additional information: The lists that were valid during the creation were used as basis.

### Exposure controls

- Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- Breathing equipment: Not required.

(Contd. on page 4)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/01/2022

Reviewed on 03/01/2022

**Trade name: Graconol**

(Contd. of page 3)

. Protection of hands:	Solvent resistant gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
. Material of gloves	Nitrile rubber, NBR The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
. Penetration time of glove material	Value for the permeation: Level $\leq 0,7$ mm 480min (8h) EN374 The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
. Eye protection:	Tightly sealed goggles

**9 Physical and chemical properties****. Information on basic physical and chemical properties****. General Information****. Appearance:**

Form:	Fluid
Color:	Colorless
. Odor:	Like alcohol
. Odor threshold:	Not determined.

. pH-value at 20 °C (68 °F):	6
. Change in condition	
Melting point/Melting range:	-114.5 °C (-174.1 °F)
Boiling point/Boiling range:	78 °C (172.4 °F)
. Flash point:	12 °C (53.6 °F)
. Flammability (solid, gaseous):	Not applicable.
. Ignition temperature:	363 °C (685.4 °F)
. Decomposition temperature:	Not determined.
. Auto igniting:	Product is not selfigniting.
. Danger of explosion:	Not determined.
. Explosion limits:	
Lower:	3.5 Vol %
Upper:	15 Vol %
. Vapor pressure at 20 °C (68 °F):	85.5 hPa (64.1 mm Hg)
. Density at 20 °C (68 °F):	0.7901 – 0.7902 g/cm <sup>3</sup> (6.5934 – 6.5942 lbs/gal)
. Relative density	Not determined.
. Vapor density	Not determined.
. Evaporation rate	Not determined.
. Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
. Partition coefficient (n-octanol/water):	Not determined.
. Viscosity:	
Dynamic at 20 °C (68 °F):	1.2 mPas
Kinematic:	Not determined.
. Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
VOC (EU) (%)	100.0 %
Solids content:	0.0 %
. Other information	No further relevant information available.

**10 Stability and reactivity**

. Reactivity	No further relevant information available.
. Chemical stability	
. Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
. Possibility of hazardous reactions	No dangerous reactions known.
. Conditions to avoid	No further relevant information available.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/01/2022

Reviewed on 03/01/2022

Trade name: Graconol

Incompatible materials: No further relevant information available.

(Contd. of page 4)

## 11 Toxicological information

### Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

#### CAS: 64-17-5 ethanol

Oral	LD50	10,470 mg/kg (rat) (Acute Oral Toxicity)
Dermal	LD50	> 2,000 mg/kg (rabbit) (Acute Dermal Toxicity)
Inhalative	LC50/4h	51 mg/l (rat) (Acute Inhalation Toxicity)

#### CAS: 78-93-3 butanone

Oral	LD50	2,193 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit) (Acute Dermal Toxicity)
Inhalative	LC50/4h	34 mg/l (mouse) (Acute Dermal Toxicity)

#### CAS: 67-63-0 propan-2-ol

Oral	LD50	5,840 mg/kg (rat) (Acute Oral Toxicity)
Dermal	LD50	12,870 mg/kg (rab) (Acute Dermal Toxicity)
Inhalative	LC50/4h	72.6 mg/l (rat)
	LC50/6h	> 25 mg/l (rat) (Acute Inhalation Toxicity)

Primary irritant effect:

on the skin: No irritant effect.

#### CAS: 64-17-5 ethanol

Ätz-/Reizwirkung auf die Haut (rabbit) (Acute Dermal Irritation/Corrosion)

#### CAS: 67-63-0 propan-2-ol

Ätz-/Reizwirkung auf die Haut (4h) (rabbit) (Acute Dermal Irritation/Corrosion)

on the eye:

#### CAS: 64-17-5 ethanol

Schwere Augenschädigung/-reizung (rabbit) (Acute Eye Irritation/Corrosion)

#### CAS: 67-63-0 propan-2-ol

Schwere Augenschädigung/-reizung (rabbit) (Acute Eye Irritation/Corrosion)

Sensitization: No sensitizing effects known.

Additional toxicological information:

#### CAS: 67-63-0 propan-2-ol

NOAEL, maternal	400 mg/kg KG/day (rat)
NOAEL, parents	500 mg/kg KG/day (Two-Generation Reproduction Toxicity)
	853 mg/kg KG/day (rat) (One-Generation Reproduction Toxicity Study)

Carcinogenic categories

IARC (International Agency for Research on Cancer)

CAS: 64-17-5 ethanol	1
CAS: 67-63-0 propan-2-ol	3

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety &amp; Health Administration)

None of the ingredients is listed.

Reproductive toxicity

#### CAS: 67-63-0 propan-2-ol

Oral NOAEL, Parents 500 mg/kg (rat) (Two-Generation Reproduction Toxicity)

Specific target organ toxicity - repeated exposure

#### CAS: 67-63-0 propan-2-ol

STOT RE mg/kg/day (rat)

## 12 Ecological information

### Toxicity

Aquatic toxicity:

#### CAS: 64-17-5 ethanol

EC50	5,800 mg/l (Paramaecium caudatum)
EC50 (24h)	858 mg/l (Artemia salina)
EC50 (7d)	> 5,000 mg/l (Algae) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
EC50 (48h)	9,268 – 14,221 mg/l (daphnia magna/gr. Wasserfloh) (Daphnia sp. Acute Immobilisation Test)
EC50 (72h)	275 mg/l (Chlorella vulgaris) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
LC50 (24h)	11,200 mg/l (Salmo gairdneri)
LC50 (48h)	5,012 mg/l (Ceriodaphnia dubia (Wasserfloh))

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/01/2022

Reviewed on 03/01/2022

Trade name: Graconol

(Contd. of page 5)

LC50 (96h)	13,000 mg/l (Oncorhynchus mykiss) (Fish, Acute Toxicity Test)
	14,200 mg/l (Pimephales promelas (fettköpf. Ellritze))
NOEC (10d)	2 mg/l (Daphnie)

**CAS: 78-93-3 butanone**

EC50 (48h)	308 mg/l (daphnia magna/gr. Wasserfloh) (Daphnia sp. Acute Immobilisation Test)
EC50 (72h)	1,972 mg/l (Pseudokirchneriella subcapitata - Algen) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
EC50 (16h)	1,150 mg/l (Pseudomonas putida)
LC50 (96h)	2,993 mg/l (Pimephales promelas (fettköpf. Ellritze)) (Fish, Acute Toxicity Test)

**CAS: 67-63-0 propan-2-ol**

EC50	> 100 mg/l (Bacteria)
EC50 (48h)	> 100 mg/l (daphnia magna/gr. Wasserfloh)
EC50 (72h)	> 100 mg/l (Scenedesmus subspicatus)
EC50 (96h)	> 1,000 mg/l (Scenedesmus subspicatus) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
LC50 (24h)	9,714 mg/l (daphnia magna/gr. Wasserfloh) (Daphnia sp. Acute Immobilisation Test)
	9,640 mg/l (Pimephales promelas (fettköpf. Ellritze)) (Fish, Acute Toxicity Test)
LC50 (48h)	> 100 mg/l (Leuciscus idus (Goldorfe))
LC50 (96h)	> 9,640 – 10,000 mg/l (Pimephales promelas (fettköpf. Ellritze)) (Fish, Acute Toxicity Test)
LOEC (8d)	1,000 mg/l (Algae)
EC50 (3h)	> 1,000 mg/l (activated sludge) (Mikroorganismen/Wirkung auf Belebtschlamm)
NOEC (21d)	30 mg/l (daphnia magna/gr. Wasserfloh) (Daphnia magna Reproduction Test)
NOEC (96h)	1,000 mg/l (Scenedesmus subspicatus) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)

**. Persistence and degradability****CAS: 64-17-5 ethanol**

Biodegradability	80 – 85 % (aerob) (Biodegradability)
Biodegradability 28d	97 % (Ready Biodegradability)

**CAS: 78-93-3 butanone**

Biodegradability 28d	98 % (Biodegradability)
----------------------	-------------------------

**CAS: 67-63-0 propan-2-ol**

Biodegradability 30d	70 – 84 % (aerob) ((Derterm. of the "Ready" Biodegr. Closed Bottle))
----------------------	--

**. Behavior in environmental systems:****. Bioaccumulative potential****CAS: 64-17-5 ethanol**

Log Pow	
Log Kow	
BCF	0.66

**CAS: 78-93-3 butanone**

Log Kow	0.3
---------	-----

**CAS: 67-63-0 propan-2-ol**

Log Pow	0.05
---------	------

. Mobility in soil No further relevant information available.

**. Ecotoxicological effects:****CAS: 64-17-5 ethanol**

EC10 (72h)	11.5 mg/l (Paramaecium caudatum) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
------------	---

**. Additional ecological information:**

. General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**. Results of PBT and vPvB assessment**

. PBT: Not applicable.

. vPvB: Not applicable.

. Other adverse effects No further relevant information available.

**13 Disposal considerations****. Waste treatment methods**

. Recommendation: Must be specially treated adhering to official regulations.

**. Uncleaned packagings:**

. Recommendation: Non contaminated packagings can be treated like household garbage.

**14 Transport information****. UN-Number**

. DOT, ADR, IMDG, IATA

UN1993

(Contd. on page 7)

US

# Safety Data Sheet




acc. to OSHA HCS

Printing date 03/01/2022

Reviewed on 03/01/2022

Trade name: Graconol

(Contd. of page 6)

<b>. UN proper shipping name</b>	
. DOT	Flammable liquids, n.o.s. (Ethanol solutions)
. ADR	1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION))
. IMDG	FLAMMABLE LIQUID, N.O.S. (ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION))
. IATA	FLAMMABLE LIQUID, N.O.S. (ETHANOL SOLUTION)
<b>. Transport hazard class(es)</b>	
. DOT	
	
. Class	3 Flammable liquids
. Label	3
. ADR	
	
. Class	3 (F1) Flammable liquids
. Label	3
. IMDG, IATA	
	
. Class	3 Flammable liquids
. Label	3
<b>. Packing group</b>	
. DOT, ADR, IMDG, IATA	II
<b>. Environmental hazards:</b>	
. Marine pollutant:	No
<b>. Special precautions for user</b>	
. Hazard identification number (Kemler code):	Warning: Flammable liquids
. EMS Number:	33
. Stowage Category	F-E, S-E
	B
<b>. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	
Not applicable.	
<b>. Transport/Additional information:</b>	
. ADR	
. Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
. IMDG	
. Limited quantities (LQ)	1L
. Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>. UN "Model Regulation":</b>	
UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)), 3, II	

## 15 Regulatory information

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

No further relevant information available.

. Sara

. Section 355 (extremely hazardous substances):

None of the ingredients is listed.

. Section 313 (Specific toxic chemical listings):

CAS: 67-63-0 | propan-2-ol

. TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

. Hazardous Air Pollutants

None of the ingredients is listed.

(Contd. on page 8)

US



# Safety Data Sheet


acc. to OSHA HCS

Printing date 03/01/2022

Reviewed on 03/01/2022

**Trade name: Graconol**

(Contd. of page 7)

. Proposition 65	
. Chemicals known to cause cancer:	
None of the ingredients is listed.	
. Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
. Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
. Chemicals known to cause developmental toxicity:	
CAS: 64-17-5   ethanol	
. Carcinogenic categories	
. EPA (Environmental Protection Agency)	
CAS: 78-93-3   butanone	I
. TLV (Threshold Limit Value)	
CAS: 64-17-5   ethanol	A3
CAS: 67-63-0   propan-2-ol	A4
. MAK (German Maximum Workplace Concentration)	
CAS: 64-17-5   ethanol	5
. NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
. GHS label elements	The product is classified and labeled according to the Globally Harmonized System (GHS).
. Hazard pictograms	 GHS02 GHS08
. Signal word	Danger
. Hazard-determining components of labeling:	ethanol
. Hazard statements	Highly flammable liquid and vapor. May cause cancer.
. Precautionary statements	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.
. Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. Department issuing SDS:	Environment protection department.
. Contact:	
. Date of preparation / last revision	03/01/2022 / 2201
. Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

(Contd. on page 9)

US



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 03/01/2022

Reviewed on 03/01/2022

**Trade name: Graconol**

(Contd. of page 8)

BEI: Biological Exposure Limit  
Flammable Liquids 2: Flammable liquids – Category 2  
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A  
Carcinogenicity 1A: Carcinogenicity – Category 1A  
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

\* Data compared to the previous  
version altered.

US