

according to Regulation (EC) No 1907/2006

**Passivierungsmittel P** 

Print date: 22.07.2019			e1c
SECTION 1: Identification of t	he substance/mixture and of the co	ompany/undertaking	
1.1. Product identifier			
Passivierungsmittel P			
1.2. Relevant identified uses of the	ne substance or mixture and uses adv	ised against	
Use of the substance/mixture			
Metal surface treatment pro	oducts, including galvanic and electropla	ting products	
Uses advised against			
Do not use for private purpo	oses (household).		
.3. Details of the supplier of the	( , , , , , , , , , , , , , , , , , , ,		
Company name:	- CANTESCO - KEMPER SYSTE	M GmbH & Co. KG	
Street:	Boschstr. 14 - 16		
Place:	D-48653 Coesfeld		
Telephone:	+49 (0) 02541/920-0	Telefax: +49 (0) 02541/920-285	
e-mail:	MSDS@KEMPER-SYSTEM.COM	۸.	
Responsible Department:	Giftinformationszentrum der Länd	ler Rheinland-Pfalz und Hessen	
	Langenbeckstraße 1; Gebäude 6	01; 55131 Mainz	
1.4. Emergency telephone	+49 (0)6131 / 19 24 0		
number:			

# 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories: Substance or mixture corrosive to metals: Met. Corr. 1 Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Corr. 1A Serious eye damage/eye irritation: Eye Dam. 1 Hazard Statements: May be corrosive to metals. Harmful if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage.

## 2.2. Label elements

## Regulation (EC) No. 1272/2008

Hazard components for labelling Nitric acid

Signal word:

**Pictograms:** 



## **Hazard statements**

H290	May be corrosive to metals.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.

### **Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.



### - CANTESCO - KEMPER SYSTEM GmbH & Co. KG

## Safety Data Sheet

#### according to Regulation (EC) No 1907/2006

	Passivierungsmittel P	
Print date: 22.07.2019	Product code: C2710	Page 2 of 9
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P310	Immediately call a POISON CENTER/doctor.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P390	Absorb spillage to prevent material damage.	
2.3. Other hazards		

No information available.

### **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

## Chemical characterization

inorganic acids

### Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regulation (EC) No. 1272/2008 [CLP]				
7697-37-2	Nitric acid	Nitric acid			
	231-714-2	007-004-00-1	01-2119487297-23		
	Ox. Liq. 2, Met. Corr. 1, Acute Tox. 3, Skin Corr. 1A; H272 H290 H331 H314				

Full text of H and EUH statements: see section 16.

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

## 4.1. Description of first aid measures

## **General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Avoid contact with skin, eyes and clothes. Wear suitable protective clothing, gloves and eye/face protection. Remove contaminated, saturated clothing immediately.

### After inhalation

Provide fresh air. Medical treatment necessary.

## After contact with skin

After contact with skin, wash immediately with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

Causes severe skin burns and eye damage.

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

Immediate medical treatment required because corrosive injuries that are not treated are hard to cure. Treat symptomatically.



according to Regulation (EC) No 1907/2006

## Passivierungsmittel P

Print date: 22.07.2019

Product code: C2710

Page 3 of 9

### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. The product itself does not burn. Water spray jet, Water mist , Foam, Dry extinguishing powder, Carbon dioxide

#### Unsuitable extinguishing media

High power water jet

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

Non-flammable. In case of fire may be liberated: Nitrogen oxides (NOx)

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

## **SECTION 6: Accidental release measures**

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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Before discharge into sewage plants the product normally needs to be neutralised.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

### Keep container tightly closed.

Wear suitable protective clothing, gloves and eye/face protection. Avoid contact with skin, eyes and clothes. When using do not eat, drink or smoke. Do not breathe gas/fumes/vapour/spray. Wash hands before breaks and after work.

## Advice on protection against fire and explosion

No special fire protection measures are necessary.

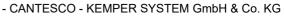
## 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Unsuitable container/equipment material: Metal.

## Advice on storage compatibility

Do not store together with: alkali





according to Regulation (EC) No 1907/2006

# Passivierungsmittel P

Print date: 22.07.2019

Product code: C2710

Page 4 of 9

### Further information on storage conditions

Protect against: Frost

storage temperature 5 - 35 °C

## 7.3. Specific end use(s)

Metal surface treatment products, including galvanic and electroplating products

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7697-37-2	Nitric acid	-	-		TWA (8 h)	WEL
		1	2.6		STEL (15 min)	WEL

### **DNEL/DMEL** values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
7697-37-2	Nitric acid						
Worker DNEL,	long-term	inhalation	local	2,6 mg/m³			
Worker DNEL,	acute	inhalation	local	2,6 mg/m³			
Consumer DNEL, long-term		inhalation	local	1,3 mg/m³			
Consumer DNE	EL, acute	inhalation	local	1,3 mg/m³			

## 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

## Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

## Eye/face protection

Suitable eye protection: goggles.

## Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.



according to Regulation (EC) No 1907/2006

## **Passivierungsmittel P**

Print date: 22.07.2019

Product code: C2710

Page 5 of 9

#### **SECTION 9: Physical and chemical properties** 9.1. Information on basic physical and chemical properties Physical state: liauid Colour: colourless Odour: odourless Test method pH-Value (at 20 °C): 1,4 (10 g/l) Changes in the physical state not determined Melting point: Initial boiling point and boiling range: not determined Flash point: not determined Sustaining combustion: ASTM D 4206 Flammability Solid: not applicable Gas: not applicable Lower explosion limits: not determined VDI 2263 not determined VDI 2263 Upper explosion limits: Auto-ignition temperature Solid: not applicable Gas: not applicable Decomposition temperature: not determined **Oxidizing properties** Not oxidizing. Vapour pressure: not determined Density (at 20 °C): 1,15 g/cm<sup>3</sup> Water solubility: easily soluble Solubility in other solvents not determined Partition coefficient: not determined Vapour density: not determined Evaporation rate: not determined 9.2. Other information Solid content: not determined

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

#### 10.1. Reactivity

Corrosive to metals. Possibility of hazardous reactions. Reacts with : alkali

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Exothermic reaction with: alkali



according to Regulation (EC) No 1907/2006

## **Passivierungsmittel P**

Print date: 22.07.2019

Product code: C2710

Page 6 of 9

## 10.4. Conditions to avoid

Temperature < 5°C

### 10.5. Incompatible materials

Metal.

## 10.6. Hazardous decomposition products

No known hazardous decomposition products.

#### **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Acute toxicity

Harmful if inhaled.

#### ATEmix calculated

ATE (inhalative vapour) 10,60 mg/l; ATE (inhalative aerosol) 2,000 mg/l

CAS No	Chemical name						
	Exposure route	Dose		Species	Source		
7697-37-2	Nitric acid	_					
	inhalative (4 h) vapour	LC50	2,65 mg/l	Rat	OECD 403		
	inhalative aerosol	ATE	0,5 mg/l				

#### Irritation and corrosivity

Causes severe skin burns and eye damage.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source		
7697-37-2	Nitric acid	Nitric acid						
	Acute fish toxicity	LC50	12,5 mg/l		Oncorhynchus mykiss (Rainbow trout)	OECD 203		
	Acute crustacea toxicity	EC50	4,6 mg/l	48 h	Ceriodaphnia dubia	US-EPA		

## 12.2. Persistence and degradability

The product has not been tested.

## 12.3. Bioaccumulative potential



according to Regulation (EC) No 1907/2006

## **Passivierungsmittel P**

Print date: 22.07.2019

Product code: C2710

Page 7 of 9

The product has not been tested.

## 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

#### 12.6. Other adverse effects

No information available.

## **Further information**

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances

Classified as hazardous waste.

## Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself. Contaminated packages must be completely emptied and can be re-used following proper cleaning.

Wash with plenty of water.

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)

UN 2031
NITRIC ACID
8
II
8
8
C1
1 L
E2
2
80
E
UN 2031
NITRIC ACID



## according to Regulation (EC) No 1907/2006

Passivierungsmittel P					
Print date: 22.07.2019	Product	code: C2710	Page 8 of 9		
<u>14.3. Transport hazard class(es):</u>	8				
14.4. Packing group:	П				
Hazard label:	8				
	Â				
Classification code:	C1				
Limited quantity:	1 L				
Excepted quantity:	E2				
Marine transport (IMDG)					
<u>14.1. UN number:</u>	UN 2031				
14.2. UN proper shipping name:	NITRIC ACID				
14.3. Transport hazard class(es):	8 11				
<u>14.4. Packing group:</u> Hazard label:	8				
Hazard label:	<del>ه</del>				
	8				
Special Provisions:					
Limited quantity:	- 1 L				
Excepted quantity:	E2				
EmS:	F-A, S-B				
Air transport (ICAO)					
<u>14.1. UN number:</u>	UN 2031				
14.2. UN proper shipping name:	NITRIC ACID				
<u>14.3. Transport hazard class(es):</u>	8				
14.4. Packing group:	П				
Hazard label:	8				
	8				
Limited quantity Passenger: Passenger LQ:	Forbidden Forbidden				
Excepted quantity:	E0				
IATA-packing instructions - Passenger:	20	Forbidden			
IATA-max. quantity - Passenger:		Forbidden			
IATA-packing instructions - Cargo:		855			
IATA-max. quantity - Cargo:		30 L			
14.5. Environmental hazards					
ENVIRONMENTALLY HAZARDOUS:	no				
14.6. Special precautions for user					
No information available.					
14.7. Transport in bulk according to Annex	II of Marpol and the	BC Code			
not applicable					
SECTION 15: Regulatory information					

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



### according to Regulation (EC) No 1907/2006

Passivierungsmittel P						
Print date: 22.07.2019	Product code: C2710	Page 9 of 9				
EU regulatory information						
2004/42/EC (VOC):	0 %					
National regulatory information						
Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).					
Water contaminating class (D):	1 - slightly water contaminating					
15.2. Chemical safety assessment						
Chemical safety assessments for s	substances in this mixture were not carried out.					

## **SECTION 16: Other information**

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% Relevant H and EUH statements (number and full text)

H2/2	May intensity fire; oxidiser.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
H332	Harmful if inhaled.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)