



according to UK REACH Regulation

## **InoTec Pickling Paste RS**

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

#### 1.1. Product identifier

InoTec Pickling Paste RS

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

### Use of the substance/mixture

Metal surface treatment products

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

Company name: Caree Chemie GmbH Street: Hüttenstr. 31 Place: D-52355 Düren

Telephone: +49 (0) 2421/22593-50 Telefax: +49 (0) 2421/22593-22

e-mail: sds@caree-chemie.de
Internet: www.caree-chemie.de

1.4. Emergency telephone +49 (0) 761/19240

number:

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

## **GB CLP Regulation**

Met. Corr. 1; H290 Acute Tox. 2; H310 Acute Tox. 3; H301 Acute Tox. 3; H331 Skin Corr. 1; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

### **GB CLP Regulation**

### Hazard components for labelling

Nitric acid Hydrofluoric acid

Signal word: Danger

Pictograms:





# Hazard statements

H290 May be corrosive to metals.
H301+H331 Toxic if swallowed or if inhaled.
H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

# **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P262 Do not get in eyes, on skin, or on clothing.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with



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water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Special labelling of certain mixtures

EUH071 Corrosive to the respiratory tract.

2.3. Other hazards

No information available.

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

### 3.2. Mixtures

### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation				
7697-37-2	Nitric acid			<25%	
	231-714-2	007-004-00-1	01-2119487297-23		
	Ox. Liq. 2, Met. Corr. 1, Acute Tox. 1, Acute Tox. 4, Skin Corr. 1A; H272 H290 H330 H302 H314 EUH071				
7664-39-3	Hydrofluoric acid				
	231-634-8	009-003-00-1	01-2119458860-33		
	Acute Tox. 1, Acute Tox. 2, Acute Tox. 2, Skin Corr. 1A; H310 H330 H300 H314				
5329-14-6	sulfamic acid, sulphamic acid, sulphamidic acid				
	226-218-8	016-026-00-0	01-2119488633		
	Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 3; H315 H319 H412				

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

## Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. I	Limits, M-factors and ATE		
7697-37-2	231-714-2	Nitric acid	<25% %	
		0 = 2,6 mg/l (vapours); inhalation: ATE = 0,005 mg/l (dusts or mists); dermal: g/kg; oral: LD50 = 1530 mg/kg Ox. Liq. 2; H272: >= 99 - 100 Ox. Liq. 3; H272:		
7664-39-3	231-634-8	Hydrofluoric acid	<10% %	
	inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: ATE = 5 mg/kg; oral: ATE = 5 mg/kg Skin Corr. 1A; H314: >= 7 - 100 Skin Corr. 1B; H314: >= 1 - < 7 Eye Irrit. 2; H319: >= 0,1 - < 1			
5329-14-6	226-218-8	sulfamic acid, sulphamic acid, sulphamidic acid	<2% %	
	dermal: LD50 = >2000 mg/kg; oral: LD50 = 3160 mg/kg			

## **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 extrusion. Avoid direct contact to eyes, skin or clothes. Wear dense protective clothing. Take off contaminated clothing immediately. Call a physician immediately. Remove affected person from the danger area. First aider: pay attention to self-protection! In case of unconsciousness bring patient in recovery position. Suspicion of poisoning demands medical survey. Symptoms may arise up to 48 h after contact.





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#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately. After inspiration of steam or aerosol consult a physician immediately. Bring patient to fresh air. Give patient calcium tablets and keep him calm. Let inhale oxygen in case of breathlessness.

#### After contact with skin

Call a physician immediately. Instant medical treatment essential. Untreated burns lead to badly healing wounds. Flush with water, afterwards apply Ca-gluconate gel and massage it into skin. Larger injuries (> 150 cm2) require additional donation of 6 calcium tablets (400 mg each), solved in water. Repeat procedure every 2 hrs before reaching the hospital. Take off immediately all contaminated clothing and wash it before reuse.

#### 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.

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

Spasms, bronchitis, bloody vomiting, circulation problems, danger of blindness.

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

Treat symptomatically. Product for removing coatings on surfaces

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

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

Non-flammable.

### 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.

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

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

## General advice

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.

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

#### Other information

Take up mechanically. 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**



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## 7.1. Precautions for safe handling

### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust.

### Advice on protection against fire and explosion

No special fire protection measures are necessary.

## Advice on general occupational hygiene

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.

## 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:

## Hints on joint storage

No special measures are necessary.

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

Metal surface treatment products

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

## 8.1. Control parameters

### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7664-39-3	Hydrogen fluoride (as F)	1.8	1.5		TWA (8 h)	WEL
		3	2.5		STEL (15 min)	WEL
7697-37-2	Nitric acid	1	2.6		STEL (15 min)	WEL

#### **DNEL/DMEL values**

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
5329-14-6	sulfamic acid, sulphamic acid, sulphamidic acid					
Worker DNEL, long-term		dermal	systemic	10 mg/kg bw/day		
Consumer DNEL, long-term		dermal	systemic	5 mg/kg bw/day		

### **PNEC** values

CAS No	Substance				
Environmental compartment Value		Value			
5329-14-6	sulfamic acid, sulphamic acid, sulphamidic acid				
Freshwater 0,048 m		0,048 mg/l			
Marine water		0,0048 mg/l			

## 8.2. Exposure controls







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### Appropriate engineering controls

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

#### Individual protection measures, such as personal protective equipment

### Eye/face protection

Suitable eye protection: goggles, Eye glasses with side protection (DIN EN 166).

### Hand protection

Suitable material: PVC (polyvinyl chloride), Thickness of the glove material = 1,2 mm, Permeation time (maximum wear time) > 480 min

Tested protective gloves must be worn, EN ISO 374

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. DIN EN 14605

## Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filtering device (full mask or mouthpiece) with filter: blue EN 148-1

### **SECTION 9: Physical and chemical properties**

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

Physical state: Paste
Colour: colourless
Odour: stinging

# Changes in the physical state

Melting point/freezing point: not determined
Boiling point or initial boiling point and not determined

boiling range:

Flash point: not applicable

Flammability

Solid/liquid: not determined
Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

Self-ignition temperature

Solid: not determined Gas: not applicable

Decomposition temperature: not determined pH-Value (at 20 °C): 1,2

Viscosity / dynamic: >10000 mPa·s

(at 20 °C)

Water solubility: easily soluble

Solubility in other solvents

not determined





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Partition coefficient n-octanol/water:

Vapour pressure:

Density (at 20 °C):

Relative vapour density:

not determined

1,2 g/cm³

not determined

### 9.2. Other information

## Information with regard to physical hazard classes

Oxidizing properties Not oxidizing.

### Other safety characteristics

Solid content: not determined Evaporation rate: not determined

**Further Information** 

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

#### 10.1. Reactivity

Possibility of hazardous reactions.

Corrosive to metals. Slowly corrodes aluminium and zink under hydrogen evolution.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

Exothermic reaction with: Base, Peroxides, Oxidizing agent.

## 10.4. Conditions to avoid

frost, temperature > 35 °C

### 10.5. Incompatible materials

Metal. Keep away from: Base, Oxidizing agent, Peroxides.

## 10.6. Hazardous decomposition products

Nitrogen oxides (NOx), Hydrogen fluoride

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

#### **ATEmix calculated**

ATE (oral) 69,8 mg/kg; ATE (dermal) 70,4 mg/kg; ATE (inhalation vapour) 4,50 mg/l; ATE (inhalation dust/mist) 0,544 mg/l



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## **Acute toxicity**

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
7697-37-2	Nitric acid					
	oral	LD50 mg/kg	1530	Rat		
	dermal	LD50 mg/kg	2740	Rat		
	inhalation (4 h) vapour	LC50	2,6 mg/l	Rat	OECD 403	
	inhalation dust/mist	ATE mg/l	0,005			
7664-39-3	Hydrofluoric acid					
	oral	ATE	5 mg/kg			
	dermal	ATE	5 mg/kg			
	inhalation vapour	ATE	0,5 mg/l			
	inhalation dust/mist	ATE	0,05 mg/l			
5329-14-6	sulfamic acid, sulphamic	acid, sulph	amidic acid			
	oral	LD50 mg/kg	3160	Rat		
	dermal	LD50 mg/kg	>2000	Ratte		

# **SECTION 12: Ecological information**

### 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
7697-37-2	Nitric acid						
	Acute fish toxicity	LC50 mg/l	12,5		Oncorhynchus mykiss (Rainbow trout)		
	Acute crustacea toxicity	EC50 mg/l	8800		Daphnia pulex (water flea)		
5329-14-6	-6 sulfamic acid, sulphamic acid, sulphamidic acid						
	Acute fish toxicity	LC50 mg/l	70,3	96 h	Pimephales promelas		

# 12.2. Persistence and degradability

The product has not been tested.

# 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
7697-37-2	Nitric acid	-0,21

## 12.4. Mobility in soil

The product has not been tested.

# 12.5. Results of PBT and vPvB assessment



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The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### **Disposal recommendations**

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.

## 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.

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

14.1. UN number or ID number: UN 2922

14.2. UN proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S.

8

(Nitric acid, Hydrofluoric acid)

14.3. Transport hazard class(es):

14.4. Packing group:

Hazard label: 8+6.1



Classification code: CT1
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 86
Tunnel restriction code: E

## Inland waterways transport (ADN)

14.1. UN number or ID number: UN 2922

**14.2. UN proper shipping name:** CORROSIVE LIQUID, TOXIC, N.O.S.

(Nitric acid, Hydrofluoric acid)

14.3. Transport hazard class(es): 8
14.4. Packing group: |

Hazard label: 8+6.1



Classification code: CT1 Special Provisions: 274 802 Limited quantity: 1 L



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Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 2922

14.2. UN proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S.

(Nitric acid, Hydrofluoric acid)

14.3. Transport hazard class(es):814.4. Packing group:II

Hazard label: 8+6.1



Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2922

14.2. UN proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S.

(Nitric acid, Hydrofluoric acid)

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8+6





Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Passenger LQ:

Y840

Excepted quantity:

E2

IATA-packing instructions - Passenger:851IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:855IATA-max. quantity - Cargo:30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Toxic. strongly corrosive.

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## **SECTION 15: Regulatory information**

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

### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

# **National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.





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Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning.

### 15.2. Chemical safety assessment

Chemical safety assessments for 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%

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Acute Tox. 2; H310	Calculation method
Acute Tox. 3; H301	Calculation method
Acute Tox. 3; H331	Calculation method
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	Calculation method

#### Relevant H and EUH statements (number and full text)

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H301+H331	Toxic if swallowed or if inhaled.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

## **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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