




## Safety Datasheet SBS Spray pickle


Section 1: Product ID, use and supplier			
<b>1.1 Product identification</b>	SBS Spray pickle or SBS Spraybejds (Danish name)		
<b>1.2 Use</b>	Stainless steel or other nickel alloys pickling Should not be used for other metals		
<b>1.3 Supplier and contact</b>	Scan Bejds Steel A/S, Essen 6B, DK-6000 Kolding, Tlf: +45 <b>75 500 133</b> Contact: Hans Bjerrum Andersen, hba@scanbejds.dk Website: <a href="http://www.scanbejds.dk">www.scanbejds.dk</a>		
<b>1.4 Emergency contact</b>	Contact the local safety authority or <a href="http://www.bispebjerghospital.dk/giftlinjen">www.bispebjerghospital.dk/giftlinjen</a> <div style="border: 1px solid black; padding: 5px; text-align: center;">  <b>Bispebjerg Hospital</b>  <span style="color: red; font-weight: bold;">AKUTHJÆLP VED FORGIFTNING</span>  <span style="color: green;">Ring til Giftlinjen på tlf. 82121212 døgnet rundt</span> </div>		
Section 2: Hazards identification			
<b>2.1 Classification of medium</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;">           New classification acc to EC regulation no. 1272/2008 [CLP], (see point.16.)            Acute toxicity, cat. 3; H301            Acute toxicity, cat. 3; H331            Acute toxicity cat. 2: H310            Skin corrosive, cat. 1A; H314         </td> <td style="width: 50%; vertical-align: top;">           Old classification acc. to directive 1999/45/EC, (see point.16.)             Toxic: T; R-sentence 23/24/25            Corrosive: C; R-sentence 35         </td> </tr> </table>	New classification acc to EC regulation no. 1272/2008 [CLP], (see point.16.) Acute toxicity, cat. 3; H301 Acute toxicity, cat. 3; H331 Acute toxicity cat. 2: H310 Skin corrosive, cat. 1A; H314	Old classification acc. to directive 1999/45/EC, (see point.16.)  Toxic: T; R-sentence 23/24/25 Corrosive: C; R-sentence 35
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<b>2.2 Icons Hazard pictograms</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">   <b>TOXIC (GIFTIG)</b> </div> <div style="text-align: center;">   <b>CORROSIVE (ÆTSENDE)</b> </div> </div> <p style="text-align: right;"><u>Warning: DANGER</u></p> <p><b>Danger sentences:</b>            H301 Toxic by ingestion.            H331 Toxic by inhalation.            H310 Potential fatal in contact with skin.            H314 Causes severe burns of skin and eye injuries.</p> <p><b>Sikkerhedskrav:</b>            P280 Use protective gloves / protective clothes / eye protection / face protection            P285 By insufficient ventilation, use respiratory protection.            P301+P330+P331 IN CASE OF INTAKE: Flush the mouth, do not provoke vomiting.            +P310 Immediately call a toxic information or a doctor.            P303+P361+P353 BY CONTACT WITH SKIN (or hair): Remove dirty clothes.            Flush/brush with plenty clean water.            P305+P351+P338 BY EYE CONTACT: Flush carefully with water in several minutes.            Remove eventually contact lenses, if easy. Continue flushing.            P101 In case of needed medical care, bring the container or the label.            P102+P404+P411 To be kept outside children's reach. To be kept in a closed container. Keep in room temperature, never above 40 °C</p> <p><b>Contains: 20-25% Nitric acid, 1-7% Hydrofluoric acid, thickener</b></p>		

## Safety Datasheet

### SBS Spray pickle

<b>2.3 Other hazards</b>	No PBT hazards (biological) No vPvB hazards (accumulating and hard biological degradable)																				
<b>Section 3: Composition and information on content</b>																					
<b>3.2 Mixture</b>	<p><b>Nitric acid 20-25%</b></p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 15%;">Einecs no</th> <th style="width: 15%;">CAS no</th> <th style="width: 20%;">REACH no</th> <th style="width: 20%;">Hazards.</th> <th style="width: 30%;">Class (CLP)</th> </tr> </thead> <tbody> <tr> <td>231-714-2</td> <td>7679-37-2</td> <td>01-2119487297-23</td> <td>O; R8 C; R35</td> <td>Cor liquid. 3; H272 Skin cor. 1A; H314</td> </tr> </tbody> </table> <p><b>Hydroflouric acid 1-7%</b></p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 15%;">Einecs no</th> <th style="width: 15%;">CAS no</th> <th style="width: 20%;">REACH no</th> <th style="width: 20%;">Hazards.</th> <th style="width: 30%;">Classification (CLP)</th> </tr> </thead> <tbody> <tr> <td>231-634-8</td> <td>7664-39-3</td> <td>01-2119458860-33</td> <td>T+; R26/27/28 C; R35</td> <td>Acute toxicity 1; H310 Acute toxicity 2; H300 Acute toxicity 2; H330 Skin cor. 1A; H314</td> </tr> </tbody> </table> <p>(See codes point 16)</p>	Einecs no	CAS no	REACH no	Hazards.	Class (CLP)	231-714-2	7679-37-2	01-2119487297-23	O; R8 C; R35	Cor liquid. 3; H272 Skin cor. 1A; H314	Einecs no	CAS no	REACH no	Hazards.	Classification (CLP)	231-634-8	7664-39-3	01-2119458860-33	T+; R26/27/28 C; R35	Acute toxicity 1; H310 Acute toxicity 2; H300 Acute toxicity 2; H330 Skin cor. 1A; H314
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<b>Section 4: First aid measures</b>																					
<b>4.1 First aid description</b>	<p><b>Skin Contact:</b> Remove contaminated clothes. Rinse immediately with plenty fresh water. If the irritation do not stop, contact a doctor and show this material safety data sheet.</p> <p><b>Eye Contact:</b> Rinse immediately with plenty of water for at least 15 minutes. Thereafter consult an eye-doctor. Show this material safety data sheet .Remove eventually contact lens.</p> <p><b>Inhalation:</b> Breathe fresh air. Seek medical attention if the symptoms don't immediately disappear. Show this material safety data sheet. Keep the person in surveillance.</p> <p><b>Ingestion:</b> Flush the mouth. Drink plenty of milk or water. Do not provoke vomiting. Seek medical care. Show this material safety data sheet.</p>																				
<b>4.2 Symptoms. Immediate and after</b>	<p><b>Skin Contact:</b> There is no immediate pain, with skin contact, but the acids will slowly work its way into the skin, if not removed immediately. Untreated skin contact can cause deep, painful and slow healing wounds Repeatedly contact causes risk off chronic skin damage.</p> <p><b>Eye Contact:</b> The product is very corrosive and painful. Risk of irreparable eye damage.</p> <p><b>Inhalation:</b> Inhalation of fumes could cause aches, coughs and difficulty to breathe. Risk of oedema on the lungs. (within 24-48 hours) Repeatedly inhalation can cause etching on the teeth's and chronic breathing diseases.</p> <p><b>Ingestion:</b> The product is highly corrosive and can cause a burning pain. Risk of vomiting, breath problems and illness. Risk of chronic damage of teeth's and breathes. By heavy ingestion also the skeleton, kidneys and liver can be damaged.</p>																				

## Safety Datasheet SBS Spray pickle

<b>4.3</b> <b>Immediate treatment</b>		If damage has occurred, the effect of the working hydrofluoric acid can be stopped with calcium glyconate. Named as glyconat oinment /Anti HF /Anti HF gel
<b>Section 5: Fire fighting</b>		
<b>5.1</b> <b>Extinguishing</b>	Use suitable extinguisher after the surroundings, foam, powder, mist or sand. The material is not flammable.	
<b>5.2</b> <b>Extraordinary hazards by fire and pickle acid</b>	By high heat, toxic gasses can occur, like NOx-gas or HF-vapor. Pickle acid in contact with base metals, can develop smaller amounts of Hydrogen and risk of explosion.	
<b>5.3</b> <b>Protective gear by fire fighting</b>	Use breath protection with gasfilter type B and dustfilter type P2. Protective clothes and footwear.	
<b>Section 6: Accidental release measures</b>		
<b>6.1</b> <b>Personal protection</b>	Use sensibly full covering working clothes. PVC-gloves (EN388) or Nitrile gloves (EN374) and safety goggles – preferred tightly fitting “motor goggles” Use, as minimum, halfmask (EN140) with multifilter, colorcode brown+gray+yellow+green (EN14387) See point 8.2 for more information. By large parts or by inside spraying, use full fresh air breathing gear.	
<b>6.2</b> <b>Environmental precautions</b>	Avoid any kind of waste to sewer. Stop the release. Secure drain gates	
<b>6.3</b> <b>Methods and materials for securing and cleaning</b>	Neutralize with chalk or diluted lye (5-10% NaOH). Soak up with sand or cat litter. Collect and dismiss as dangerous goods acc. to the regulations of the work site. Rinse with plenty water. Avoid the waste to get in contact with any imcompatible products (see point 10) Eventual release to public sewer has to be immidiate reported to local authority.	
<b>6.4</b> <b>Reference to other points</b>	See section 1 for emergency contact, section 8 for personal protection and section 13 for handling of waste water and remanences.	
<b>Section 7: Handling and storing</b>		
<b>7.1</b> <b>Safety precautions for safe handling</b>	<b>Handling:</b> Pickle products is only to be handled by trained personnel, knowing all relevant hazards. By handling of opened (or broken) containers, the same safety rules, as for working, is applied. <b>See point 8.2</b>	

## Safety Datasheet SBS Spray pickle

<b>7.2</b> <b>Safety precautions for safe storing</b> Continued <b>Safety precautions for safe storing</b>	<b>Storing:</b> To be stored safe and outside reach of children. Not with together with food, animal feed, medical equipment and similar. Also not together with larger amounts of lye or similar. To be stored in dry conditions by temp. 0-40°C, optimal by 15-30 °C. No direct sun. Good ventilation. Storing only in closed original packing.
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<b>7.3</b> <b>Use</b>	The product is only for stainless steel pickling.
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### Section 8: Exposure control and personal protection

<b>8.1</b> <b>Control parameters</b>	<b>Border limits expotions:</b>  <b>Nitric acid:</b> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>8 h mg/m3</th> <th>8 h ppm</th> <th>15 min. mg/m3</th> <th>15 min. ppm</th> </tr> </thead> <tbody> <tr> <td>Denmark</td> <td>5</td> <td>2</td> <td>10</td> <td>4</td> </tr> <tr> <td>Germany</td> <td>-</td> <td>-</td> <td>2,6</td> <td>1</td> </tr> <tr> <td>Norway</td> <td>5</td> <td>2</td> <td>-</td> <td>-</td> </tr> <tr> <td>Sweden</td> <td>5</td> <td>2</td> <td>13</td> <td>5</td> </tr> <tr> <td>EU</td> <td></td> <td></td> <td>2,6</td> <td>1</td> </tr> </tbody> </table> <b>Hydroflouric acid:</b> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>8 h mg/m3</th> <th>8 h ppm</th> <th>15 min. mg/m3</th> <th>15 min. ppm</th> </tr> </thead> <tbody> <tr> <td>Danmark</td> <td>1,5</td> <td>1,8</td> <td>3</td> <td>3,6</td> </tr> <tr> <td>Germany</td> <td>0,83</td> <td>1</td> <td>1,66</td> <td>2</td> </tr> <tr> <td>Norway</td> <td>0,5</td> <td>0,6</td> <td>-</td> <td>-</td> </tr> <tr> <td>Sweden</td> <td>-</td> <td>-</td> <td>1,7</td> <td>2</td> </tr> <tr> <td>EU</td> <td>1,5</td> <td>1,8</td> <td>2,5</td> <td>3</td> </tr> </tbody> </table> <b>See other countries here:</b> <a href="http://limitvalue.ifa.dguv.de/">http://limitvalue.ifa.dguv.de/</a>		8 h mg/m3	8 h ppm	15 min. mg/m3	15 min. ppm	Denmark	5	2	10	4	Germany	-	-	2,6	1	Norway	5	2	-	-	Sweden	5	2	13	5	EU			2,6	1		8 h mg/m3	8 h ppm	15 min. mg/m3	15 min. ppm	Danmark	1,5	1,8	3	3,6	Germany	0,83	1	1,66	2	Norway	0,5	0,6	-	-	Sweden	-	-	1,7	2	EU	1,5	1,8	2,5	3
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<b>8.2</b> <b>Exposure-control /personal protection</b>	<b>Precautions by use:</b> Avoid direct contact with the product. Ensure good ventilation. Unhindered access to shower, rinse water and eye-rinse is needed. By work away from permanent installations, always bring sufficient amounts of clean water in easily handled containers and bottles. Eating, drinking and smoking should not take place and the work place. Always clean up environment and tools with plenty of water, when the work is finished.  <b>Personal protection:</b> Use sensible, full covering, working clothes. Safety goggles. PVC-gloves (EN388) or Nitrile gloves (EN374) Check gloves datasheet for penetration time and change often. By risk of fumes, use halfmask (EN140) with multifilter, colorcode brown+gray+yellow+green (EN14387) Or fresh air supply mask  Before work and during work, control for holes in gloves, clothes and footwear. Change immediately if any holes found.  By taking of nitrile gloves, flush them and take them off by rolling the outside in.
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## Safety Datasheet SBS Spray pickle

Use PVC rubber clothes and boots by spray pickling.  
Always clean clothes, gloves, boots and gear, by breaks and end of work.

### Section 9: Physical and chemical properties

#### 9.1 Physical and chemical properties

##### General information:

State	Liquid
Colour	Milky white. Clear greenish in use
Smell	Sticky
Smell limit point	Not known
pH-value by 20°C	0
Flamme point	Not relevant
Flammability	Not flammable
Boilling point	~105 °C
Ekspllosion danger	No
Ekspllosion limits	Not relevant
Solubility	100% in water
Steam pressure	<0,01 kPa
Density	1,15 kg/l by 20 °C
Viscosity	Unknown

#### 9.2 Other information

**No further relevant information**

### Section 10: Stability and reactivity

#### 10.1 Reactivity

A mixture of strong acids, reactive with determinant materials.

#### 10.2 Chemical stability

Stable and no developing of heat, used as specified.

#### 10.3 Possible dangerous reactions

Reacts strongly when mixed with bases.  
Reacts to contact with less precious metals (see 10.5) Toxic NO<sub>x</sub> gases are generated and hydrogen can develop with the following explosion hazard.

#### 10.4 Conditions to avoid

Heating and direct sunlight

#### 10.5 Incompatible materials

Both liquid and vapors attack less precious metals such as iron, zinc, titanium and aluminum.  
Glasses and silicates are attacked and surfaces get frosted over time.

#### 10.6 Dangerous decomposition products

Nitrogen Oxides (NO<sub>x</sub>)  
Hydrogen Gas

## Safety Datasheet SBS Spray pickle



### Section 11: Toxicological information

<b>11.1</b> <b>Information about the toxicological effects</b>	<p><b>Skin contact:</b>                      The skin is painfully etched, turns red and can get blisters. The wound may become moist.                      The etching can come after several hours when hydrofluoric acid works its way into the skin.                      The tissue damage is slowly healing.</p> <p><b>Eye contact:</b>                      Splashes in the eye, releases intensive pain, like soap in the eye.                      Untreated, permanent damage of vision can take place.</p> <p><b>Inhalation:</b>                      Inhalation of fumes could cause aches, coughs and difficulty to breathe.                      Risk of oedema on the lungs. (within 24-48 hours)                      Repeatedly inhalation can cause etching on the teeth's and chronic breathing diseases.</p> <p><b>Ingestion:</b>                      The product is highly corrosive and can cause a burning pain. Risk of vomiting, breath problems and illness. Risk of chronic damage of teeth's and breathes. By heavy ingestion also the skeleton, kidneys and liver can be damaged.</p> <p><b>Acute toxiness:</b>                      7664-39-3 Hydrofluoric acid has an LC50 on 1276 ppm/1h (Inhalation rat)</p> <p><b>Etching and irritation:</b>                      As described above.</p> <p>No known CMR-effects, by accessible data                      (<u>Cancerogenous</u>, mutagene, and reproductive)</p>
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### Section 12: Ecological information

<b>12.1</b> <b>Toxicity</b>	Larger amounts of the product lower the pH-value in water environment, with risk of a harmful effect. Not considered as harmful for the environment.
<b>12.2</b> <b>Persistence and degradability</b>	The product is fully degradable and dissolve immediately in water
<b>12.3</b> <b>Possible bioaccumulation</b>	Not relevant, unorganic medium
<b>12.4</b> <b>Polution of ground</b>	The product dissolve in water and can be spread in water systems
<b>12.5</b> <b>Result of PBT and vPvB examination</b>	Not a PBT or a vPvB. See evt. REACH Annex XIII
<b>12.6</b> <b>Other adverse effects</b>	No harmful effects are known.

## Safety Datasheet SBS Spray pickle

Sektion 13: Disposal	
<b>13.1 Disposal methods</b>	All wastewater and remanences from the product is to be considered as dangerous goods and disposed acc. to applicable regulations.
Sektion 14: Transportation information	
<b>Danger labels</b>	 
<b>14.1 UN</b>	<b>UN 2922</b> (ADR, IMDG, IATA)
<b>14.2 Forsendelses- betegnelse</b>	<b>Corrosive liquid, toxic N.O.S (Nitric acid and Hydroflouric acid)</b>
<b>14.3 Transport risk and classifying</b>	<b>8 + 6.1</b>
<b>14.4 Packaging group</b>	<b>II</b>
<b>14.5 Environmental risks</b>	<b>No</b>
<b>14.6 Special precautions for the user</b>	<b>None, except for the standard dangerous goods precautions</b>
<b>14.7</b> Bulktransport acc. appendix II i Marpol73/78 og IBC koden	Non relevant
Section 15: Regulatory information	
<b>15.1 Safety, health and environmental legislation for the product</b>	<b>No specific rules</b>
<b>15.2 Chemical safety assessment</b>	<b>Not accessible</b>

## Safety Datasheet SBS Spray pickle

### Section 16: Other information

<b>Abbreviations</b>	EINECS: <b>E</b> uropean <b>I</b> nventory of <b>E</b> xisting commercial <b>C</b> hemical <b>S</b> ubstances CAS: <b>C</b> hemical <b>A</b> bstract <b>S</b> ervice REACH: <b>R</b> egistration. <b>E</b> valuation. <b>A</b> uthorisation. Of <b>C</b> hemicals  LC50: <b>L</b> ethal <b>C</b> oncentration, <b>50</b> %  ADR: <b>A</b> ccord européen sur le transport des marchandises <b>D</b> angereuses par <b>R</b> oute IMDG: <b>I</b> nternational <b>M</b> aritime code for <b>D</b> angereous <b>G</b> oods IATA: <b>I</b> nternational <b>A</b> ir <b>T</b> ransport <b>A</b> ssociation
<b>Changes to previous version</b>	<b>Edition: 11-11-2015, replaces version 12-12-2012</b>  (Full revision in the new 16 point layout)
<b>Moreover</b>	Refer to the website for other products and other languages