

Safety Data Sheets

Complies with Regulation (EC) No 1907/2006 (REACH), Annex II, amended according to Regulation (EU) No 2020/878

Muppy wire guard (Alloy Steel) I, transparent/rigidngitter (Legierter Stahl) I, transparent/starr starr
Article no.: No. 93201



Revised on: 14.05.2024

Version: 6.0 Replaced version:5.0

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

1.1	Product identifier	Muppy wire guard (Alloy Steel) I, transparent/rigidngitter (Legierter Stahl) I, transparent/starr starr Article no.: 93201
1.2	Relevant identified uses of the substance or mixture and uses which are not recommended	
1.2.1	Relevant uses medical device:	Medical device - oral vestibule plate
1.2.2	Uses that are not recommended:	None known
1.3	Details of the supplier providing the safety data sheet	Dr. Hinz Dental Vertriebsgesellschaft mbH & Co. KG Friedrich der Große 64 44628 Herne GERMANY Phone: + 49 (0) 23 23 / 59 34 20 Fax : + 49 (0) 23 23 / 59 34 29 E-Mail: qm@dhug.de
1.4	Emergency number	Contact: Dr. P. Hinz Phone: + 49 17 51 83 41 34

SECTION 2: Possible dangers

2.1	Classification of the substance or mixture																															
	The material test in accordance with DIN EN ISO/IEC 17025 was carried out by a testing laboratory accredited by Deutsche Akkreditierungsstelle GmbH. This material test resulted in a bisphenol A value [CAS 80-05-7] of < 0.02 mg/l, which is below the current limit value of 0.04 mg/l. The test is deemed to have been passed and can continue to be declared as safe for sale.																															
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	Sulphur	S	CAS-Nr. 7704-34-9	<0.5	5 mg/m ²		
	Silizium	SI	CAS-Nr. 7440-21-3 EG-Nr. 215-609-9	< 5	5 mg/m ²		
	Carbon	c	CAS-Nr. 7440-44-0	< 0.3	55 mg/m ²		
	Molybdenum	Mo	CAS-Nr.: 7439-98-7 EU-Nr.: 231-107-2	< 5	10 mg/m ²	Not a hazardous substance according to GHS	
	Titan	Ti	7440-32-6	< 1	10 mg/m ²		
	Kobalt	Co	CAS: 7440-48-4 EG: 231-158-0 Index: 027-001-00-9	< 1	0.05 mg/m ²		H334, Cat. 1 H317, Cat. 1 H413, Cat. 4
	Copper	CU	CAS-Nr.: 7440-50-8 EG-Nr 231-159-6	< 5	0.2 mg/m ²		
	Aluminium	AL	7429-90-5	< 3	10 mg/m ²		
2.2	Labelling elements Additional information:			Not applicable No data available See also 2.1.1			
2.3	Other dangers			This substance/mixture does not contain components in concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB). See also 2.1.1			

SECTION 3: Composition / Information on ingredients

3.1	Chemical characterisation	<p>Polycarbonate, nickel Ferrous alloy with up to 19 % Cr, 17 % Mn, possibly with other elements > 1 %, but not to be marked See also 2.1.1</p> <p>The chemical composition of stainless steel is as follow</p> <table border="1"> <thead> <tr> <th>INGREDIENT</th> <th>CAS-NR.</th> <th>%</th> <th>TLV</th> </tr> </thead> <tbody> <tr> <td>Iron</td> <td>FE</td> <td>7439-89-6</td> <td><90 5 mg/m²</td> </tr> <tr> <td>Chrom</td> <td>Cr</td> <td>7440-47-3 10</td> <td>10 -30 5 mg/m²</td> </tr> <tr> <td>Nickel</td> <td>Ni</td> <td>7440-02-0</td> <td>< 15 1 mg/m²</td> </tr> <tr> <td>Manganese</td> <td>Mn</td> <td>7439-96-5</td> <td>< 15 1 mg/m²</td> </tr> <tr> <td>Phosphor</td> <td>P</td> <td>7723-14-0</td> <td>< 0.05 1 mg/m²</td> </tr> <tr> <td>Sulphur</td> <td>S</td> <td>7704-34-9</td> <td><0.5 5 mg/m²</td> </tr> <tr> <td>Silizium</td> <td>SI</td> <td>7440-21-3</td> <td>< 5 5 mg/m²</td> </tr> <tr> <td>Carbon</td> <td>c</td> <td>7440-44-0</td> <td>< 0.3 55 mg/m²</td> </tr> <tr> <td>Molybdenum</td> <td>Mo</td> <td>7439-98-7</td> <td>< 5 10 mg/m²</td> </tr> <tr> <td>Titan</td> <td>Ti</td> <td>7440-32-6</td> <td>< 1 10 mg/m²</td> </tr> <tr> <td>Kobalt</td> <td>Co</td> <td>7440-48-4</td> <td>< 1 0.05 mg/m²</td> </tr> <tr> <td>Copper</td> <td>CU</td> <td>7440-550-8</td> <td>< 5 0.2 mg/m²</td> </tr> <tr> <td>Aluminium</td> <td>AL</td> <td>7429-90-5</td> <td>< 3 10 mg/m²</td> </tr> </tbody> </table>	INGREDIENT	CAS-NR.	%	TLV	Iron	FE	7439-89-6	<90 5 mg/m ²	Chrom	Cr	7440-47-3 10	10 -30 5 mg/m ²	Nickel	Ni	7440-02-0	< 15 1 mg/m ²	Manganese	Mn	7439-96-5	< 15 1 mg/m ²	Phosphor	P	7723-14-0	< 0.05 1 mg/m ²	Sulphur	S	7704-34-9	<0.5 5 mg/m ²	Silizium	SI	7440-21-3	< 5 5 mg/m ²	Carbon	c	7440-44-0	< 0.3 55 mg/m ²	Molybdenum	Mo	7439-98-7	< 5 10 mg/m ²	Titan	Ti	7440-32-6	< 1 10 mg/m ²	Kobalt	Co	7440-48-4	< 1 0.05 mg/m ²	Copper	CU	7440-550-8	< 5 0.2 mg/m ²	Aluminium	AL	7429-90-5	< 3 10 mg/m ²
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3.1.1	Dangerous ingredients	<p>No hazardous ingredients according to REACH Regulation (EC) No 1907/2006.</p> <p>Bisphenol A The material test in accordance with DIN EN ISO/IEC 17025 was carried out by a testing laboratory accredited by Deutsche Akkreditierungsstelle GmbH. This material test resulted in a bisphenol A value [CAS 80-05-7] of < 0.02 mg/l, which is below the current limit value of 0.04 mg/l.</p>																																																								

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		<p>The test is deemed to have been passed and can continue to be labelled as safe for sale.</p> <p>The stainless steel wire in the moulds supplied does not normally pose any risk to humans or the environment.</p>

Section 4: First aid measures

4.1	Description of the first aid measures	
	General notes	No action should be taken that involves personal risk or that has not been adequately trained.
	Inhalation:	Remove to fresh air. Seek medical attention if symptoms occur.
	Eye contact:	Immediately flush eye with water. Seek medical attention if symptoms occur.
	Skin contact:	IF IN CONTACT WITH HOT MELT: Cool immediately with plenty of water. Do not remove product crusts from affected skin areas by force or by using solvents. Consult a doctor immediately for treatment of possible burns and for gentle cleansing of the skin. The following information refers to handling the product at room temperature. In case of contact with skin, wash thoroughly with plenty of soap and water.
	Ingestion:	Do NOT induce vomiting if swallowed. Administer a glass of water. Seek medical attention.
4.2	Most important symptoms and effects, both acute and delayed:	No information available.
4.3	Indications for immediate medical help or special treatment	
	Dangers:	This product is not expected to be harmful under normal use and proper personal hygiene.
	Treatment:	Do NOT induce vomiting if swallowed. Administer a glass of water.

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SECTION 5: Fire-fighting measures

5.1	General fire hazards	Fire residues and contaminated extinguishing water must be disposed of in accordance with local official regulations.
	Extinguishing agent Suitable extinguishing media	Water spray, extinguishing powder, carbon dioxide (CO ₂), foam, dry extinguishing agent
	Unsuitable extinguishing media:	Avoid direct water jet; this will disperse and spread the fire
5.2	Special hazards arising from the substance or mixture:	Fire produces carbon dioxide, carbon monoxide, nitrogen oxides and traces of hydrogen cyanide (hydrocyanic acid). Do not inhale explosion and fire gases.
5.3	Advice for firefighters Advice for firefighters:	Respiratory protection with independent air supply required for fire fighting. Do not allow contaminated extinguishing water to enter the ground, groundwater or bodies of water.
	Special protective equipment for fire fighting:	Wear self-contained breathing apparatus and protective clothing. Do not allow runoff from firefighting materials, even in diluted form, to reach bodies of water, sewers, or drinking water reservoirs. Use ordinary firefighting measures; consider hazards from other materials involved.

SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	Remove all sources of ignition. Wear personal protective equipment.
6.2	Environmental protection measures:	Do not allow the runoff to enter the sewer system, waterways or soil
6.3	Methods and material for retention and cleaning:	Wipe up spilled material and take to a safe place. Caution: Contaminated surfaces may be slippery.
6.4	Reference to other sections:	Caution: Contaminated surfaces may be slippery. Do not allow runoff to reach drains, sewers or bodies of water. For personal protective equipment see section 8 of SDS.

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Section 7: Handling and storage:

7.1	Protective measures for safe handling:	Under the recommended processing conditions, small quantities of emitters, essentially residual monomers and residual solvents, may be released. Ensure that the limit values specified in Section 8 are complied with by providing adequate ventilation or extraction at the workplace. Provide effective extraction of dusts during mechanical processing. Keep away from food and beverages. Wash hands and apply skin protection ointment before breaks and at the end of work. Change contaminated clothing.
	Notes on fire and explosion protection:	No special storage conditions required.
7.2	Conditions for safe storage taking into account incompatibilities:	No special storage conditions required.
	Storage stability:	No information available.
	Storage class:	Storage class (TRGS 510) : 11: Combustible solids
7.3	Specific end uses:	No information available.

SECTION 8: Exposure controls/personal protective equipment

8.1	Parameters to be monitored Occupational exposure limit values	When processing this product, especially in the thermal process, the regulations for the substances listed below must be observed. According to our experience, the limit values quoted below can be safely complied with if effective devices for ventilation and extraction are used at the discharge points of any vapors that may arise.
	Biological limit values	See Subsection 16 Table 8.1
8.2	Exposure controls Suitable engineering controls:	Eye showers and emergency showers must be available in the workplace. Provide adequate general and local exhaust ventilation system.
	Individual protective measures, for example personal protective equipment	
	General information:	Eye wash bottle with pure water. Do not eat, drink or smoke while working. Wash hands after handling
	Eye/face protection:	Wear safety goggles/face protection.
	Skin protection Hand protection:	Geeignete Materialien für Schutzhandschuhe; EN 374: Polyvinylchlorid - PVC: Dicke $\geq 0,5\text{mm}$ Kontaminierte und/oder beschädigte Handschuhe sind zu wechseln.
	Other:	Wear suitable protective clothing and goggles/face protection when working.
	Respiratory protection:	In case of dust generation, use filter unit with filter type particle filter P1 according to EN 147

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Hygiene measures:	Observe recognized industrial hygiene measures. Do not eat, drink or smoke while working. Maintain good personal hygiene. Thoroughly clean hands and contaminated work areas with soap and water before leaving the workplace. Avoid contact with skin and eyes.
Limitation and monitoring of environmental exposure:	There are no data available.

SECTION 9: Physical and chemical properties

9.1	Information on the basic physical and chemical properties																																						
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9.2.	<p>Other information Nickel Iron alloy Form : solid Color: silver-gray, metallic Odor: odorless pH : not applicable Boiling point: not applicable Melting point: 1400 - 1550°C (depending on steel grade) Flash point: not applicable Flammability: not applicable Ignition temperature: not applicable Spontaneous ignition: not applicable Oxidizing properties: not applicable Physical and chemical properties of stainless steel are as follows</p>																																						

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Parameter	Wert
Aggregatzustand / Form	fest
Farbe	grau metallisch
Geruch	Geruchlos
Schmelzpunkt/Gefrierpunkt	1300-1500 °C
Siedepunkt oder Siedebeginn und Siedebereich	Nicht anwendbar
Entzündbarkeit	Nicht anwendbar
Untere Explosionsgrenze obere Explosionsgrenze	Nicht anwendbar
Flammpunkt	Nicht anwendbar
Zündtemperatur	Nicht anwendbar
Zersetzungstemperatur	Nicht anwendbar
pH-Wert	Nicht anwendbar
Kinematische Viskosität	Nicht anwendbar
Löslichkeit	Nicht löslich in Wasser
Verteilungskoeffizient n- Oktanol/Wasser (log-Wert)	Nicht anwendbar
Dampfdruck	Nicht anwendbar
Dichte und/oder relative Dichte	7,9-8,0 g/cm ³
Relative Dampfdichte	Nicht anwendbar
Partikeleigenschaften	Nicht anwendbar

SECTION 10: Stability and reactivity

10.1	Reactivity	No information available
10.2	Chemical stability	In the event of thermal decomposition, as occurs in the event of fire or due to overheating in the case of improper processing, for example, harmful gases and vapors may be formed.
10.3	Possibility of hazardous reactions	No dangerous reactions observed.
10.4	Conditions to avoid	No information available
10.5	Incompatible materials	No information available
10.6	Decomposition products	<p>During carbonization or incomplete combustion, toxic gas mixtures containing mainly CO and CO₂ develop.</p> <p>Under the recommended processing conditions, small amounts of emitters may be released.</p> <p>When processing this product, especially in the thermal process, the regulations for the substances listed below must be observed. Phenol; Carboic acid; Monohydroxybenzene; Phenylalcohol</p> <p>INDEX No. 604-001-00-2</p>

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		<p>CAS No.: 108-95-2</p> <p>Classification (1272/2008/EC): Acute Tox. 3 Oral H301 Acute Tox. 3 Inhalative H331 Acute Tox. 3 Dermal H311 Skin Corr. 1B H314 Eye Dam. 1 H318 Muta. 2 H341 STOT RE 2 H373 Aquatic Chronic 2 H411</p> <p>Chlorobenzene</p> <p>INDEX No. 602-033-00-1</p> <p>CAS No.: 108-90-7</p> <p>Classification (1272/2008/EC): Flam. Liq. 3 H226 Acute Tox. 4 Inhalative H332 Skin Irrit. 2 H315 Aquatic Chronic 2 H411</p> <p>4-tert-butylphenol</p> <p>INDEX No. 604-090-00-8</p> <p>CAS No.: 98-54-4</p> <p>Classification (1272/2008/EC): Skin Irrit. 2 H315 Eye Dam. 1 H318 Repr. 2 H361f Aquatic Chronic 1 H410</p> <p>Bisphenol A; 4,4'-isopropylidenediphenol.</p> <p>CAS No.: 80-05-7</p> <p>Classification (1272/2008/EC): Repr. 1B H360F STOT SE 3 Inhalative H335 Eye Dam. 1 H318 Skin Sens. 1 H317 Aquatic Chronic 2 H415</p>
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SECTION 11: Toxicological data

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11.1	Information on hazard classes within the meaning of Regulation (EC) No 1272/2008
acute toxicity	<p>Toxicological studies on the product are not available.</p> <p>The stainless steel contains nickel, which is classified in EC Directive 67/548/EEC as a carcinogenic substance (category 3, i.e. of concern to humans ... but the available information is not sufficient for a satisfactory assessment) by inhalation or ingestion. The conventions of the Preparations Directive 88/379/EEC stipulate that all mixtures, solutions and alloys containing at least 1% nickel must be classified in the same way by default. To our knowledge, however, neither epidemiological studies nor animal experiments have revealed any carcinogenic effects from contact with stainless steel. Many years of experience with stainless steel in a wide variety of applications have shown that these highly resistant materials are ideally suited where hygiene is of primary concern. Nickel is also classified as a skin sensitiser, with prolonged intimate contact with the skin of some people (e.g. when wearing jewellery).</p> <p>The products are in solid form and cannot be inhaled or ingested, so they do not pose a toxic hazard (see also section 3, Identification of hazards).</p> <p>During machining, flame cutting or welding, stainless steel dust or fume containing oxides of its components may be formed. Breathing excessive concentrations in the air over a long period of time can have long-term health effects, particularly on the lungs. However, studies of workers exposed to nickel powder, dust and fumes generated during the production of nickel alloys and stainless steels have not shown any evidence of a respiratory cancer risk.</p>
Corrosive/irritant effect on the skin	No data available.
Serious eye damage/irritation	No data available.
Sensitisation of the respiratory tract/skin	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available.
Reproductive toxicity	According to our experience and information, the product does not cause any adverse health effects when handled properly.
Specific target organ toxicity at single exposure	No data available.
Specific target organ toxicity in case of repeated exposure	No data available.
Aspiration hazard	No data available.
11.2	Information on other hazards
	No data available.
11.2.1	Endocrine disrupting properties
	No data available.
11.2.2	Other information
	No data available.

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SECTION 12. Environmental information

12.1	Toxicity	No data available.
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	The product is practically insoluble in water. Due to its consistency and insolubility in water, no ecological problems are expected if handled properly. The product is not easily biodegradable
12.5	Results of the PBT and vPvB assessment	There are no data available This substance/mixture fulfils the PBT criteria of REACH regulation, annex XIII.
12.6	Endocrine disrupting properties	There are no data available
12.7	Other adverse effects	There are no data available

SECTION 13: Disposal instructions

13.1	Waste treatment process	
	General information	Disposal in compliance with all applicable international, national and local laws, regulations and statutes. For disposal within the EU, the respective valid waste code according to the European Waste Catalogue (EWC) must be used.
	Disposal methods	Emptied packaging can be handed over for recycling after residual emptying (free-flowing, spatula-clean, drip-free) at the acceptance points of the existing take-back systems of the chemical industry. Recycling must be carried out in accordance with national legislation and environmental protection regulations. The product is suitable for mechanical recycling. After appropriate treatment, it can be remelted and reprocessed into new molded parts. Voraussetzung für ein werkstoffliches Recycling ist materialspezifische Erfassung und sortenreine Verwertung.

SECTION 14: Transport information

14.1	ADR	Not dangerous goods
14.2	ADN	Not dangerous goods
14.3	RID	Not dangerous goods
14.4	IMDG	Not dangerous goods
14.5	IATA	Not dangerous goods
14.6	Special precautions for the user:	Not dangerous goods
14.7	Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code:	Not dangerous goods

SECTION 15: Legislation

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15.1	Safety, health and environmental regulations/specific legislation for the substance or mixture:	
	EU regulations	
	Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled substances:	none
	Regulation (EU) 2019/1021 on persistent organic pollutants (new edition), as amended:	none
	Regulation (EC) No 649/2012 on the export and import of dangerous chemicals:	none
	Regulation (EC) No 1907/2006, REACH Annex XIV List of substances subject to authorisation, as amended:	none
	EU. REACH Candidate List of Substances of Very High Concern (SVHC) for authorisation:	none
	Regulation (EC) No 1907/2006 Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles :	none
	Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work...:	none
	Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding:	none
	Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:	none
	REGULATION (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register, ANNEX II: Pollutants	none
	Directive 98/24/EU on the protection of workers from the risks related to chemical agents at work:	none
	National regulations	
Water hazard class	nw not hazardous to water Identification number according to AwSV: 770	
Reference to Technical Rules for Hazardous Substances (TRGS)	none	
VOC Directive (1999/13/EC) and the Decopaint Directive (2004/42/EC)	none	
Other regulations	none	
15.2	Chemical safety assessment	No chemical safety assessment has been carried out for this substance/mixture (or its components).

SECTION 16: Other information

16.1	Information on the revision	Not relevant.
	Important literature references and data sources:	There are no data available.

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Training information:	There are no data available.
Disclaimer:	More information To the best of our knowledge, the information in this safety data sheet corresponds to our knowledge at the time of revision. The information is intended to provide guidance on the safe handling of the product specified in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. Insofar as the product named in this safety data sheet is mixed, blended or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise.

8.1 Biological limits

Stoff	CAS-Nr.	Basis	Type	Value	Peak limiting value	Notes
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	EU ELV	TWA	2 ppm 8 mg/m ³		indicative
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	EU ELV				Skin resorption possible
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	EU ELV	STEL	4ppm 16 mg/m ³		indicative
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	TRGS 900				Registered
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	TRGS 900				Skin resorption possible
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	TRGS 900		2ppm 8 mg/ m ³	2	
Phenol; Carbonsäure; Monohydroxybenzol; Phenylalcohol	108-95-2	TRGS 900	Short-term overru n			Category II: Resorptive substances
Chlorbenzol	108-90-7	TRGS 900				Registered
Chlorbenzol	108-90-7	TRGS 900		5 ppm 23mg/m ³	2	Y
Chlorbenzol	108-90-7	EU ELV	TWA	5 ppm 23mg/m ³		indicative
Chlorbenzol	108-90-7	EU ELV	STEL	15 ppm 70 mg/m ³		indicative
Chlorbenzol	108-90-7	TRGS 900	Short-term overru n			Category II: Resorptive substances
4-tert-Butylphenol	98-54-4	TRGS 900				Registered
4-tert-Butylphenol	98-54-4	TRGS 900		0,08 ppm 0,5 mg/m ³	2	
4-tert-Butylphenol	98-54-4	TRGS 900				Skin resorption possible

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4-tert-Butylphenol	98-54-4	TRGS 900	Short-term overru n			
Bisphenol A; 4,4'-Isopropylidendiphenol	80-05-7	TRGS 900				Registered
Bisphenol A; 4,4'-Isopropylidendiphenol	80-05-7	TRGS 900	Short-term overru n			Category I
Bisphenol A; 4,4'-Isopropylidendiphenol	80-05-7	TRGS 900		5mg/m3		Y
Bisphenol A; 4,4'-Isopropylidendiphenol	80-05-7	EU ELV	TWA	2 mg/m3		indicative
General dust limit		TRGS 900		10 mg/m3	2	Inhalable fraction
General dust limit		TRGS 900		3 mg/m3	2	alveolengägnig fraction
General dust limit		TRGS 900	Short-term overru n			Category II: Resorptive substances