

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

### 1.1. Product identifier

Safety data sheet number	227019GNV
Product Name	Nickel
Trade Name	Nickel
REACH registration number	01-2119438727-29-0003
EC No.	231-111-4
CAS No.	7440-02-0
Chemical Name	Nikkel
Synonyms	Nickel Squares, SUPERELECTRO TM, Full Plate Cathode, Nickel Crowns, D-Crowns, Micros, Sundry, Ribs, Starting Sheets

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

<b>Recommended Use</b>	Manufacture and use of parts and products. Other registered uses for this product, can be found in section 15 of this eSDS.
<b>Uses advised against</b>	<p>Uses by workers in industrial setting:</p> <ul style="list-style-type: none"> <li>- Design and manufacture of nickel in materials or articles intended for direct and prolonged contact with the skin where the release of nickel exceeds the limit set out in Directives 94/27/EC and 2004/96/EC and REACH Regulation 1907/2006 (Annex XVII).</li> <li>- Manufacture of Ni-containing food contact materials (except Ni-Cr-plated materials) for which migration into foodstuff would exceed 0.1 mg/kg of Ni (according to Council of Europe Guidelines on metals and alloys used as food contact materials, 2002).</li> <li>- Manufacture of nickel-containing HIGH SULPHUR stainless steel (AISI grade 303, or ISO 7153-1 reference grade N) for surgical implant applications.</li> <li>- Manufacture of nickel or chromium-nickel plated heating coils in immersion kettles.</li> </ul> <p>Uses by professional workers:</p> <ul style="list-style-type: none"> <li>- Use of nickel-containing HIGH SULPHUR stainless steel (AISI grade 303, or ISO 7153-1 reference grade N) for surgical implant applications.</li> <li>- Use of nickel in materials or articles intended for direct and prolonged contact with the skin where the release of nickel exceeds the limit set out in Directives 94/27/EC and 2004/96/EC and REACH Regulation 1907/2006 (Annex XVII).</li> </ul> <p>By consumer:</p> <ul style="list-style-type: none"> <li>- Use of nickel in materials or articles intended for direct and prolonged contact with the skin where the release of nickel exceeds the limit set out in Directives 94/27/EC and 2004/96/EC and REACH Regulation 1907/2006 (Annex XVII).</li> <li>- Use of Ni-containing food contact materials (with exception of Ni-Cr-plated materials) for which migration into foodstuff would exceed 0.1 mg/kg of Ni (according to Council of Europe Guidelines on metals and alloys used as food contact materials, 2002).</li> <li>- The use of nickel or chromium-nickel plated heating coils in immersion kettles.</li> </ul>

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

<b>Manufacturer</b>	Glencore Nikkelverk AS Postboks 604 4606 Kristiansand NORWAY.
<b>E-mail address</b>	product.safety@glencore.com

### 1.4. Emergency telephone number

<b>Emergency Telephone</b>	+1 760 476 3961 (333085)
<b>Local Emergency Telephone</b>	United Kingdom: 08454 24 24 24

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Full text of H- and EUH-phrases: see section 16

Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity (repeated exposure)	Category 1 - (H372)

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Full text of R-phrases: see section 16

#### Hazard symbols

T - Toxic

#### R-code(s)

Carc. Cat. 3;R40, R48/23, R43

### 2.2. Label elements

#### Product identifier

028-002-00-7

Contains Nickel



#### Signal word

Danger

#### Hazard statements

H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer

H372 - Causes damage to organs through prolonged or repeated exposure

#### Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves

P314 - Get medical advice/attention if you feel unwell

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3. Other hazards

The PBT and vPvB criteria of Annex XIII to the Regulation does not apply to inorganic substances, such as nickel metal.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Chemical Name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC)	REACH registration number

				<b>No. 1272/2008 [CLP]</b>	
Nickel	231-111-4	7440-02-0	>=85<=100	Skin Sens. 1 (H317) Carc. 2 (H351) STOT RE 1 (H372)	01-2119438727- 29-0003

**Additional information**

This substance has workplace exposure limit(s). This product is registered under the REACH Regulation 1907/2006 as a mono-constituent substance. For more detailed chemical composition, refer to the certificate of analysis. All concentrations are in percent by weight.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>General advice</b>	Get medical advice/attention if you feel unwell. Seek medical attention for all burns, regardless how minor they may seem. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash skin with soap and water. In case of eczema or other skin disorders seek medical attention and take along these instructions. In case of contact with molten product, cool rapidly with water and seek immediate medical attention. Removal of solidified molten material from skin requires medical assistance. Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.
<b>Eye contact</b>	Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. Eyewash stations. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician.

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

**Symptoms** Irritating to eyes, skin and respiratory tract. Sensitisation.

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

**Note to physicians** Treat symptomatically. Symptoms may be delayed.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Special powder against metal fire. Dry chemical, soda ash, lime or sand. Water spray (fog).

**Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

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

Hazardous metal fumes and oxides. Dusts or fumes may form explosive mixtures in air. In a fire, nickel may form nickel carbonyl, a highly toxic substance and known carcinogen.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required. Keep unnecessary personnel away. Move containers from fire area if you can do it without risk.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Avoid release to the environment. Avoid spreading dust or contaminated materials.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Collect spillage. Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal. Collect dust or particulates using a vacuum cleaner with a HEPA filter.

**6.4. Reference to other sections**

See section 8 for more information. See section 13 for more information.

**SECTION 7: Handling and Storage****7.1. Precautions for safe handling****Advice on safe handling**

Welding, burning, sawing, brazing, grinding or machining operations may generate fumes and dusts. Ensure adequate ventilation, especially in confined areas. Use appropriate tools. Avoid contact with sharp edges and hot surfaces. Avoid generation of dust. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with molten material. Do not use water on molten metal. Use personal protective equipment as required. Do not eat, drink or smoke when using this product.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep in a dry place. Store away from incompatible materials.

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

For detailed information, see section 15. Recommendations given in the exposure scenario for the uses are distributed and annexed as separate documents to this eSDS.

**Risk Management Methods (RMM)** The information required is contained in this Material Safety Data Sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure Limits**

The product does not contain any hazardous materials with occupational exposure limits established for the EEC or its members.

Chemical Name	European Union	United Kingdom
Nickel 7440-02-0	-	TWA: 0.5 mg/m <sup>3</sup> STEL: 1.5 mg/m <sup>3</sup> Potential for cutaneous absorption

**Derived No Effect Level (DNEL)** General Population Acute Systemic effects  
**Oral** 1.2 mg/kg/day

**Derived No Effect Level (DNEL)** Workers Long term Local effects  
**Dermal** 0.015 mg/m<sup>3</sup>  
**Inhalation** 0.05 mg/m<sup>3</sup>

**Predicted No Effect Concentration (PNEC)** No information available

<b>Freshwater</b>	3.6 µg/l Ni <sup>2+</sup>
<b>Marine water</b>	8.6 µg/l Ni <sup>2+</sup>
<b>Soil</b>	29.9 mmol/mol
<b>Impact on Sewage Treatment</b>	0.33 mg/l

## 8.2. Exposure controls

### Engineering Controls

Minimize exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. Use explosion-proof equipment if high dust/air concentrations are possible. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The recommendations listed below are only an advice and should be evaluated by an occupational hygienist or safety expert who is familiar with the specific situation and use.

### Personal protective equipment

#### Eye/face protection

Wear dust-resistant safety goggles where there is danger of eye contact. In addition to safetyglasses or goggles, a welding helmet with appropriate shaded shield is required during welding, burning, or brazing. A face shield is recommended, in addition to safety glasses or goggles, during sawing, grinding, or machining.

#### Hand Protection

Heat resistant gloves are recommended when handling molten materials. Wear suitable protective gloves to prevent cuts and abrasions. E.g. type of ¾ dipped natural latex, with steel, fiberglass and Kevlar liner and long knitted cuff, cut protection level 5. Suitable gloves can be recommended by the supplier.

#### Skin and body protection

Wear suitable protective clothing. Regular protective clothing with high visibility according to EN471 Class 2 is recommended. Arm protection of HDPE / glass fiber is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment. Recommended is a half mask type FFP3. Suitable mask can be recommended by the supplier.

#### Recommended Filter Type

Particle filter type P3.

### Environmental exposure controls

Contain spills and prevent releases and observe national regulations on emissions. Local authorities should be advised if significant spillages cannot be contained.

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Solid	<b>Odor</b>	Odorless
<b>Appearance</b>	Massive, solid metal	<b>Odor threshold</b>	Not applicable
<b>Color</b>	Silver-grey		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>		Not applicable
<b>Melting point / freezing point</b>	1455 °C 2651 °F	
<b>Boiling point / boiling range</b>	2730 °C 4946 °F	
<b>Flash point</b>		Not applicable
<b>Evaporation rate</b>		Not applicable
<b>Flammability (solid, gas)</b>		Non flammable
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>		No information available
<b>Lower flammability limit:</b>		No information available
<b>Vapor pressure</b>	1 mm Hg at 1810 °C	
<b>Vapor density</b>		Not applicable
<b>Specific Gravity</b>		Not applicable
<b>Water solubility</b>		insoluble
<b>Solubility(ies)</b>		No information available
<b>Partition coefficient</b>		Not applicable
<b>Autoignition temperature</b>		No information available
<b>Decomposition temperature</b>		Toxic gases and vapors (such as nickel carbonyl) may be released in the decomposition of nickel

Kinematic viscosity	compound
Dynamic viscosity	Not applicable
Explosive properties	Not applicable
Oxidizing properties	Not explosive
	Not an oxidizer

**9.2. Other information**

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	Not applicable
Density	8.9 at 25 °C (77 °F)
Bulk density	No information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reactivity	Stable under normal conditions.
Remarks	No data available

**10.2. Chemical stability**

Stable.

**10.3. Possibility of hazardous reactions**

**Hazardous polymerization** Hazardous polymerization does not occur.

**Possibility of Hazardous Reactions** None under normal processing.

**10.4. Conditions to avoid**

Incompatible materials. Contact with acids will release flammable hydrogen gas.

**10.5. Incompatible materials**

Incompatible with oxidizing agents, Fluorides, Ammonia, Halogens, Sulphur, Acids, Nitrates, Phosphorus

**10.6. Hazardous decomposition products**

Welding, burning, sawing, brazing, grinding or machining operations may generate fumes and dusts.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity****Product Information**

The acute oral toxicity of nickel metal has been determined in a well-performed animal study which concluded the acute oral LD50 was greater than >9000 mg/kg bw. High concentrations of freshly formed fumes/dusts of metal oxides can produce symptoms of metal fume fever. Data on acute toxicity in animals via dermal exposure have not been found. Dermal acute toxicity is expected to be low in view of the low oral toxicity and the negligible absorption via the skin.

<b>Inhalation</b>	Dust may irritate respiratory system.
<b>Eye contact</b>	Avoid direct eye contact with product, also via contamination on hands.
<b>Skin contact</b>	May cause sensitization by skin contact.
<b>Ingestion</b>	May be ingested by accident.
<b>Unknown acute toxicity</b>	No information available.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 9,009.00 mg/kg

**Oral LD50**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nickel	> 9000 mg/kg ( Rat )		

**Skin corrosion/irritation**

Not irritant in skin irritation study using the rabbit (animal number: 2, dose: 500mg/animal's ear, exposure period: 24 hours, observation period: 7 days).

<b>Serious eye damage/eye irritation</b>	No studies of eye irritation by metallic nickel have been found. Toxicity data from water-soluble nickel compounds can be used to estimate the potential of nickel metal to cause eye irritation. No classification for eye irritation is proposed.
<b>Sensitization</b>	Not a respiratory sensitiser. Sufficient data from human studies exists to warrant classification of Ni metal as a dermal sensitizer.
<b>Germ cell mutagenicity</b>	Test data conclusive but not sufficient for classification.
<b>Carcinogenicity</b>	Suspected as carcinogen for human by inhalation.

Chemical Name	European Union
Nickel	Carc. 2

<b>Reproductive toxicity</b>	Test data conclusive but not sufficient for classification.
<b>STOT - single exposure</b>	Test data conclusive but not sufficient for classification.
<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure. Lungs. Respiratory system.
<b>Symptoms</b>	The product causes irritation of eyes, skin and mucous membranes. Sensitizing.
<b>Aspiration hazard</b>	Not classified.

## SECTION 12: Ecological information

### 12.1. Toxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Nickel	0.18 mg/L: 72 h Pseudokirchneriella subcapitata EC50 0.174 - 0.311 mg/L: 96 h Pseudokirchneriella subcapitata EC50 static	100 mg/L: 96 h Brachydanio rerio LC50 1.3 mg/L: 96 h Cyprinus carpio LC50 semi-static 10.4 mg/L: 96 h Cyprinus carpio LC50 static	100 mg/L: 48 h Daphnia magna EC50 1 mg/L: 48 h Daphnia magna EC50 Static

### 12.2. Persistence and degradability

The product is not biodegradable.

### 12.3. Bioaccumulative potential

Accumulates in soil and sediment. Potential to bioaccumulate is low.

**Bioconcentration factor (BCF)** 270 mg/L

### 12.4. Mobility in soil

**Mobility in soil** Metal in massive form is not mobile in the environment.  
**Mobility** Metal in massive form is not mobile in the environment.

### 12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6. Other adverse effects

Not expected to be harmful to aquatic organisms

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations. Recover and recycle, if practical. Solid metal and alloys in the form of particles may be reactive. Its hazardous characteristics, including fire and explosion, should be determined prior to disposal.
<b>Contaminated packaging</b>	Since emptied containers retain product residue, follow label warnings even after containers is emptied.
<b>Waste codes / waste designations according to EWC / AVV</b>	06 04 99

## SECTION 14: Transport information

**ADR**

14.1 UN/ID no.	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

**RID**

14.1 UN/ID no.	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

**ADN**

14.1 UN/ID no.	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None

**IATA**

14.1 UN/ID no.	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

**IMDG**

	Not regulated as dangerous good
14.1 UN/ID no.	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

**MARPOL**

Non marine pollutant

**ICAO (air)**

14.1 UN/ID no.	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Chemical Name	French RG number	Title
Nickel 7440-02-0	RG 37ter	-

European Union



**Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

**Take note of Directive 94/33/EC on the protection of young people at work**

Not to be used by professional users below 18 years of age, see the National Working Environment Authorities Executive Order on young peoples dangerous work.

**Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work**

Not to be used by pregnant workers and workers who have recently given birth or who are breastfeeding.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Chemical Name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Nickel - 7440-02-0	Use restricted. See item 27.	

**Persistent Organic Pollutants**

Not applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**

Toxic

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**International Inventories**

TSCA	Listed
DSL/NDSL	Listed
EINECS/ELINCS	Listed
IECSC	Listed
KECL	Listed
AICS	Listed

### 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

<b>Indication of changes</b>	<b>Sections changed from previous version:</b> Numbering of sub headers in all sections 1.4: Local Emergency Telephone 2.2: Numbering of Hazard statements and Precautionary statements 8.2: Type and quality Personal Protective Equipment 16: Indication of changes
<b>Risk Combination Phrases</b>	R40 - Limited evidence of a carcinogenic effect R43 - May cause sensitization by skin contact R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation
<b>Full text of H-Statements referred to under section 3</b>	H317 - May cause an allergic skin reaction H351 - Suspected of causing cancer if inhaled H372 - Causes damage to organs through prolonged or repeated exposure if inhaled
<b>Legend</b>	<b>PBT</b> - Persistent, Bioaccumulative and toxic <b>vPvB</b> - very Persistent and very Bioaccumulative <b>DSD</b> - Directive 67/548/EEC <b>CLP</b> - Regulation No.1272/2008 <b>STOT</b> - Specific target organ toxicity <b>DNEL</b> - Derived No Effect Level <b>PNEC</b> - Predicted No Effect Level

**LD50** - Lethal Dose, 50%  
**EC50** - Effective Concentration, 50 %  
**LC50** - Lethal Concentration, 50 %  
 STEL (Short Term Exposure Limit)  
 TWA (time-weighted average)  
**HDPE** - High-density Polyethylene  
**FFP** - Filtering FacePiece  
**ADR** - European Agreement concerning the International Carriage of Dangerous Goods by Road  
**RID** - Regulations concerning the International carriage of Dangerous goods by rail  
**ADN** - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
**IATA** - International Air Transport Association  
**IMDG** - International Maritime Dangerous Goods code  
**MARPOL** - International Convention for the Prevention of Pollution of the Sea by Oil  
**IBC** - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
**ICAO** - International Civil Aviation Organization  
**TSCA** - Toxic Substances Control Act  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**DSL/NDSL** - Canada Domestic Substance List/Non-Domestic Substance List  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**IUCLID** - International Uniform Chemical Information Database  
**IARC** - Monographs: Overall Evaluation of Carcinogenicity (Volume 1- 106)

**Classification procedure**

Calculation method  
 On basis of test data

**Key literature references and sources for data**

**IUCLID** - International Uniform Chemical Information Database  
 IARC Monographs

**Issue Date**

01-Apr-2011

**Revision Date**

26-Mar-2015

**Revision Note**

Not applicable.

**Training Advice**

Follow training instructions when handling this material

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**