

Safety Data Sheet

NST Kerback Ceramic Backing

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : NST Kerback Ceramic Backing

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

Relevant identified uses

Main use category : Professional use

Use of the substance/mixture : Cermaic welding backing

Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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nst.no

Contact person : Eyvind Røed (E.post: Eyvind@nst.no)

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182/+44 191 2606180 24H

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements (CLP) : P261 - Avoid breathing fume, dust, vapours
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear Breathing equipment, face protection, protective gloves, protective clothing

2.3. Other hazards

Other hazards not contributing to the classification : In the smoke emitted by use, there will be an additional risks if inhaled. Intensive exposure to welding fumes may cause lung disease, bronchitis, or worsen already existing inhalation problems. Intensified exposure to manganese (Mn) can damage the central nervous system or worsen existing health problems.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quartz (SiO ₂)	(CAS No) 14808-60-7 (EC no) 238-878-4 (REACH-no) N/A	40 - 50	Not classified
	(CAS No) 1344-28-1 (EC no) 215-691-6 (REACH-no) 01-2119529248-35	38 - 44	Not classified
MAGNESIUM OXIDE	(CAS No) 1309-48-4 (EC no) 215-171-9 (REACH-no) N/A	8 - 11	Not classified
Aluminium Tape			Not classified

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

- First-aid measures general : General first aid, rest, warmth and fresh air. Move to fresh air. Call a poison center or a doctor if you feel unwell.
- First-aid measures after inhalation : Move to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell. Artificial respiration if indicated.
- First-aid measures after skin contact : Wash skin with soap and water. Get medical attention if irritation persists after washing. If burned, cool skin with ice or cold water.
- First-aid measures after eye contact : Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.
- First-aid measures after ingestion : Rinse nose, mouth and throat with water.

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

- Symptoms/injuries after inhalation : Overexposure to welding fumes may affect pulmonary function. Strong exposure to manganese may affect the nervous system
. Inhalation of vapours may cause respiratory irritation.

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

No additional information available

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Non flammable.
- Hazardous decomposition products in case of fire : Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Oxides of: aluminium. Silicon. Magnesium. Manganese.

5.3. Advice for firefighters

- Protection during firefighting : Do not enter fire area without proper personal protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Ensure adequate ventilation, especially in confined areas.
Overexposure to welding fumes may affect pulmonary function.

For non-emergency personnel

- Protective equipment : Wear appropriate personal protective equipment - see Section 8.

For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Mechanically recover the product.

6.4. Reference to other sections

See section 13 for waste handling. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Precautions for safe handling : Avoid breathing dust and fumes generated during processing, and insure adequate ventilation of the workplace. Mechanical ventilation or local exhaust ventilation is required. Avoid inhalation of vapours. Avoid contact with skin and eyes. Do not touch electrical parts, such as welding wire and welding machine terminals. Handle with care to avoid stings and cuts.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Store in a well-ventilated place. Keep cool. Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pile no more than 9 layers.

7.3. Specific end use(s)

Contact supplier for more information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

(1344-28-1)		
United Kingdom	Local name	Aluminium oxides
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable dust 4 mg/m ³ respirable dust
MAGNESIUM OXIDE (1309-48-4)		
United Kingdom	Local name	Magnesium oxide
United Kingdom	WEL TWA (mg/m ³)	4 mg/m ³ (as Mg) fume and respirable dust 10 mg/m ³ (as Mg) inhalable dust

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station. Provide eyewash station.

Personal protective equipment : Gloves. Safety glasses.

Materials for protective clothing : Heatproof clothing

Hand protection : Gloves made of insulating material. Heat-resistant gloves. EN 388

Eye protection : Use approved safety goggles or face shield. Wear safety glasses with high protection against UV radiation. STANDARD EN 166

Skin and body protection : Använd värmeisolerande handskar, skor och annan säkerhetsutrustning avsedda för svetsning

Respiratory protection : Vid svetsning bör användas friskluftsmask eller motor assisterad andningskydd med P2 eller P3-filter i kombination med brunt, gult och grått gassfilter. Andningskydd bör användas i samband med svetsning. STANDARD EN 149



Other information : Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state : Solid

Colour : Beige.

Odour : odourless.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 1430 °C

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.9
Solubility	: Not soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

Additional information : None to our knowledge.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No incompatible groups noted.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Will not polymerise.

10.4. Conditions to avoid

None to our knowledge.

10.5. Incompatible materials

None to our knowledge.

10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Oxides of: Aluminium. Silicon (Si). Magnesium. Manganese.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity : Not classified
 Vapours are irritating to the respiratory system
 May cause eye-irritation of susceptible persons

(1344-28-1)	
LD50 oral rat	> 5000 mg/kg

Skin corrosion/irritation	: Not classified May cause a sensitization
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals after repeated contact
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified Inhalation of fumes or vapours may cause respiratory irritation Overexposure to welding fumes may affect pulmonary function.

Specific target organ toxicity (repeated exposure) : Not classified
 Overexposure to welding fumes may affect pulmonary function. Overexposure to air contaminants may lead to their accumulation in the lungs. The severity of the change is proportional to the length of the exposure. Long term exposure to welding and allied processes gasses, dusts and fumes may contribute to pulmonary irritation or pneumoconiosis. Long term overexposure to nickel fumes may also cause pulmonary fibrosis and edema. Chromium compounds have a corrosive action on the skin and mucous membranes. Liver damage and allergic skin rash have also been reported. Overexposure to manganese compounds may affect the central nervous system and is irreversible. Overexposure to copper fumes may lead to copper poisonin. Welding fumes (not otherwise specified) are possibly carcinogenic to humans.

Aspiration hazard : Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general : Not classified as dangerous to the environment. However, the product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

(1344-28-1)	
LC50 fish 1	> 100 mg/l LC50 96h fish <i>Salmo trutta</i>
EC50 Daphnia 1	> 100 mg/l (48 hours - <i>Daphnia magna</i>)
IC50 algae	> 100 mg/l (IC50, 72 hours - <i>Selenastrum capricornutum</i>)

12.2. Persistence and degradability

NST Kerback Ceramic Backing	
Persistence and degradability	The product is not biodegradable.

12.3. Bioaccumulative potential

NST Kerback Ceramic Backing	
Bioaccumulative potential	No data available on bioaccumulation.

12.4. Mobility in soil

NST Kerback Ceramic Backing	
Ecology - soil	The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

NST Kerback Ceramic Backing	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Other adverse effects

Other adverse effects : None to our knowledge.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Regional legislation (waste) : Product is not hazardous waste.
 Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
 European List of Waste (LoW) code : 12 01 13 - welding wastes

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
14.3. Transport hazard class(es)	
14.4. Packing group	
14.5. Environmental hazards	
No supplementary information available	

14.6. Special precautions for user**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU-Regulations**

Contains no substance on the REACH candidate list

National regulations

EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Indication of changes:

Regulatory information. Identification of the substance/mixture and of the company/undertaking.

1	Name of the product :	Modified	
2.3	Other hazards not contributing to the classification	Added	
3.2	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Removed	
3.2	Composition/information on ingredients	Modified	

Data sources	: EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.
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Signature	: A. Åsebø Murel

The information in this safety data sheet is based on information from the manufacturer/supplier, present European and national legislation, and presupposes that the product is used within the specified area of application.