



**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures

NICKEL MONOXIDE CAS-No.: 1313-99-1	EC No.: 215-215-7	6-8%
Registration Number: 01-2119467172-41-XXXX		
Classification (67/548/EEC) Skin Sens. 1 - H317 Carc. 1A - H350i STOT RE 1 - H372 Aquatic Chronic 4 - H413	Classification (EC 1272/2008) Carc. Cat. 1;R49 T;R48/23 R43 R53	
Frits Chemical group 1		20-30%
CAS-No.: 65997-18-4	EC No : 266-047-6	
Classification EC (1272/2008) Not classified	Classification (67/548/EEC) Not classified	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measureInhalation

Fresh air. Get medical attention if any discomfort continues.

Ingestion

Do not induce vomiting. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious.

Skin contact

Wash skin with soap and water.

Eye contact

Rinse with water. Contact physician if discomfort continues.

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

Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Skin contact

Mild dermatitis, allergic skin rash.

4.3. Indication of any immediate medical attention and special treatment needed**SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing mediaExtinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixtureUnusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

The product is non-combustible. If heated, toxic vapours may be formed.

5.3. Advice for firefightersSpecial Fire Fighting Procedures

No specific fire fighting procedure given.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Avoid spreading dust or contaminated materials. Do not discharge into drains, water courses or onto the ground.

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

Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like.

## 6.4. Reference to other sections

## **SECTION 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

Do not eat, drink or smoke when using the product. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

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

Keep away from food, drink and animal feeding stuffs. Store in tightly closed original container at a temperature above 0°C.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1. Control parameters

Name	STD	TWA – 8 Hrs	STEL – 15 Mins	Notes
Tundra Glaze		0.15mg/m <sup>3</sup>		
NICKEL MONOXIDE	WEL	0.5mg/m <sup>3</sup>		Carc, Sen, Sk, as Ni

### Ingredient Comments

### 8.2. Exposure controls

#### Protective equipment



#### Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

#### Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

#### Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

#### Eye protection

Wear dust resistant safety goggles where there is danger of eye contact.

#### Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

Appearance	Grey coloured powder
Odour	Odourless.
Solubility	Insoluble in water
Relative density	1-2
pH-Value, Conc. Solution	7

### 9.2. Other information

## **SECTION 10: STABILITY AND REACTIVITY**

### 10.1. Reactivity

No specific reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

#### Hazardous Polymerisation

Not relevant

### 10.4. Conditions to avoid

Not known.

### 10.5. Incompatible materials

Materials To Avoid

Strong acids.

10.6. Hazardous decomposition products

Not known.

**SECTION 11: TOXICOLOGICAL INFORMATION**

11.1. Information on toxicological effects

Toxicological information

No data recorded.

Other Health Effects

Carcinogen Category 1.

Inhalation

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Ingestion

No harmful effects expected in amounts likely to be ingested by accident.

Skin contact

Risk of sensitisation or allergic reactions among sensitive individuals.

Eye contact

May cause temporary eye irritation.

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity

The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. Toxicity

12.2. Persistence and degradability

Degradability

The product solely consists of inorganic compounds which are not biodegradable.

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

**SECTION 13: DISPOSAL CONSIDERATIONS**

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

**SECTION 14: TRANSPORT INFORMATION**

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

**SECTION 15: REGULATORY INFORMATION**

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

## Uk Regulatory References

Health and Safety at Work Act 1974.

## Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

## Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

## Guidance Notes

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

## EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation,

Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## National Regulations

Workplace Exposure Limits 2005 (EH40)

## 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## **SECTION 16: OTHER INFORMATION**

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SDS No. P0174

Safety Data Sheet Status Approved.

Date 01.06.2004

### Risk Phrases In Full

R43 May cause sensitisation by skin contact.  
R53 May cause long term effects in the aquatic environment.  
R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.

### Hazard Statements In Full

H372 Causes damage to organs <<Organs>> through prolonged or repeated exposure.  
H413 May cause long lasting harmful effects to aquatic life..  
H350i May cause cancer by inhalation.  
H317 May cause an allergic skin reaction

## Disclaimer

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.