

Holland Shielding Systems B.V.
Material Safety Data Sheet
Conductive Coating

1. IDENTIFICATION OF PRODUCT & COMPANY

Product Detail : 3801/3805/3820 Conductive Coating.

Application of the substance / the preparation - For use as a conductive coating. For professional use only.

Manufacturer / supplier:

Holland Shielding Systems B.V.
P.O. Box 730
NL 3300 AS Dordrecht
the Netherlands
phone + 31 78 6 13 13 66
fax + 31 78 6 14 95 85
e-mail: info@hollandshielding.com
internet: www.hollandshielding.com

2. COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Characterisation:

Description: Mixture of substances listed below with non hazardous additives.

Ingredient Name	CAS No.	CONTENTS	HEALTH (class)	RISK (R.No.)
Nickel	7440-02-0	50-100 %	Xn	40, 43
Xylene (mix)	1330-20-7	15-20 %	Xn	10, 20/21- 38

See section 16 for description of risks R Nos

3. HAZARDS IDENTIFICATION

Hazard description

Xn Harmful

Information concerning particular hazards for humans and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest version.

R10 Flammable
R20/21 Harmful by inhalation and in contact with skin
R38 Irritating to skin
R40 Limited evidence of a carcinogenic effect
R43 May cause sensitisation by skin contact

The classification is according to the latest editions of the EU lists, and extended by company and literature data

7440-02-0 nickel
1330-20-7 xylene mix

4. FIRST AID MEASURES

General- Keep affected person away from heat, sparks and flames! Never give anything by mouth to an unconscious person. Symptoms of poisoning may occur after several hours, therefore observe for 48 hrs after any accident.

Eyes - Contact lenses should be removed. Irrigate copiously with clean, fresh water for several minutes holding the eye lids apart, seek medical advice.

Inhalation - Remove to fresh air, keep warm and at rest. If breathing is irregular or stopped give artificial respiration Give nothing by mouth. If unconscious place in the recovery position and seek medical advice.

Skin Contact - Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner.

Ingestion - If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

Extinguishing media- Carbon dioxide, Dry powder, Sand, Foam. Larger fires should be attacked with water spray or alcohol resistant foam.

Not to be used - Water with full jet.

SPECIAL INSTRUCTIONS TO FIRE FIGHTING PERSONNEL - Fire will produce dense black smoke containing hazardous products of combustion (see section 10). Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Person related safety : Wear protective equipment. Keep unprotected people away.

Environmental protection: Do not allow to enter sewers/ surface or ground water.

Measures for cleaning and collection: Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of waste as section 13. Ensure adequate ventilation.

7. STORAGE AND HANDLING

Handling:

Information for safe handling:

Keep receptacles tightly sealed.
Ensure good ventilation/ extraction at the work place
Prevent formation of aerosols.

Information about fire and explosion protection:

Keep ignition sources away- Do not smoke.
Protect against electrostatic charges.

Storage:

Requirements for storerooms and receptacles: No special requirements

Information about one common storage facility: Not required.

Further information about storage: Keep receptacle tightly sealed

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures - Provide adequate ventilation. Where reasonably practical this should be achieved by the use of local exhaust ventilation and good general extraction. If extraction methods are insufficient to maintain concentrations of particulates and/or solvent vapours below relevant OES, suitable respiratory protective equipment should be worn.

Ingredients that require monitoring at the work place:

Xylene mix 1330-20-7

OES Short term value: 662mg/m³, 150 ppm

Long term value: 441mg/m³, 100 ppm

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with eyes.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter devices. In case of intensive or longer exposure use a respiratory device that is independent of circulating air.

Protection of hands:

Use protective gloves.

The glove material has to be impermeable and resistant to the product/substance/preparation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of the glove material needs to be determined from the manufacturer of the protective glove and has to be observed.

Eye protection:

Use tightly sealed goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

Form Fluid.

Colour According to specification.

Odour Characteristic.

Change in condition:

Melting point/Melting range Undetermined.

Boiling point/Boiling range 137°C

Flash point: 25 °C

Ignition Temperature: 500 °C

Self Igniting: Product is not self igniting.

Danger of Explosion: Product is not explosive, possible formation of explosive air and vapour mixtures.

Explosion limits:

Lower	1.1 vol%
Upper	7.0 vol%
Vapour pressure at 20C:	6.7hPa
Density:	
Solubility in miscibility with water: Not miscible	

10. STABILITY & REACTIVITY

Thermal decomposition / conditions to be avoided:

Stable under the recommended storage and handling conditions (see sect. 7). In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxides and oxides if nitrogen may be produced.

Dangerous reactions:

No dangerous reactions known.

Dangerous decomposition products:

No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

LD/LC50 values relevant for classification

1330-20-7 Xylene mix

Oral	LD50	8700mg/kg rat
Dermal	LD50	2000mg/kg rabbit
Inhalative	LC50/4h	6350 mg/l rat

Primary irritant effect:

On the skin: irritant to skin and mucous membranes.

On the eye: No irritating effect.

Sensitisation: sensitisation possible through skin contact.

Additional toxicological information: The product shows the following dangers according to the calculation method of the general EU Classification Guidelines for Preparations as issued in the latest version:

- Harmful
- Irritant

12. ECOLOGICAL INFORMATION

General notes:

Water hazard class 2 (German regulation) (Self assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water even in small quantities.

13. DISPOSAL CONSIDERATIONS

Product must not be disposed together with household waste. Do not allow into the sewage system

Uncleaned packaging must be disposed of according to official recommendations.

14. TRANSPORT INFORMATION

Land transport ADR/RID (cross border)

ADR/RID class: 3 Flammable liquids
Danger code(Kemler): 30
UN number: 1263
Packaging group: III
Hazard label: 3
Description of goods: 1263 PAINT

Maritime Transport IMDG:

IMDG Class: 3
UN number: 1263
Label: 3
Packaging group: III
EMS Number: F-E,S-E
Marine Pollutant: No
Proper shipping name: PAINT

Air Transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3
UN/ID number: 1263
Label: 3
Packaging group: III
Proper shipping name: PAINT

15. REGULATORY INFORMATION

Labelling according to EU Guidelines:

Code letter and hazard designation of product:

Xn - Harmful

Hazard determining components of labelling:

Xylene (mix)
Nickel

Risk Phrases:

10 Flammable
20/21 Harmful by inhalation and in contact with skin.
38 Irritating to skin
40 Limited evidence of a carcinogenic effect.
43 May cause sensitisation by skin contact.

Safety Phrases:

9 Keep container in a well ventilated place
23 Do not breathe fumes/vapour/spray
25 Avoid contact with eyes
36/37 Wear suitable protective clothing and gloves
43 In case of fire, use water or powdered extinguishing agent.
60 This material and its container must be disposed of as hazardous waste.

National Regulations:

Technical Instruction (air):

Class	Share %
II	51.1
NK	24.1

Waterhazard Class:

Water hazard class 2 (self assessment): hazardous for water

16. OTHER INFORMATION

Relevant Risk (R) Phrases

R10	Flammable
R20/21	Harmful by inhalation and in the contact with skin
R38	Irritating to skin
R40	Possible irreversible effects
R43	May cause sensitisation by skin contact

The user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation.

It provides guidance only and should not be construed as a guarantee of technical performance or suitability for particular applications

Department issuing MSDS: Health and Safety