

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 04/13/2011

Revision: 04/13/2011

1 Identification of substance:• **Product details:**• **Trade name:** CONDURSAL N523• **Application of the substance / the preparation** Gas Nitriding Stop Off• **Manufacturer/Supplier:**

Manufacturer:

NÜSSLE GmbH & Co. KG
 Isoliermittel für Härtetechnik
 Iselshauserstr. 55
 D-72202 NAGOLD
 GERMANY

Tel.: +49 (0)7452 93205- 0

Fax.: +49 (0)7452 93205-20

mail@nuessle-kg.de

Supplier:

THE DUFFY COMPANY
 283 E. Hellen Rd. Palatine, Il. 60067-6954
 (847) 202-0000 Fax (847) 202-0004
 USA

• **Informing department:** Laboratory Department• **Emergency information:**

InfoTrac
 1-800-535-5053

2 Hazards identification• **Hazard designation:** void• **Information pertaining to particular dangers for man 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 valid version.

R 10 Flammable.

• **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

• **NFPA ratings**

Health =0

Flammability =3

Reactivity =0

• **HMIS ratings**

Health = 0

Flammability = 3

Reactivity = 0

3 Composition/information on ingredients• **Chemical characterization**• **Description:**

Mixture of the substances listed below with harmless additions.

• **Dangerous components:**

1330-20-7 xylene, mixture of isomers
 Xn, Xi; R 10-20/21-38

10-15%

• **Additional information**

For the wording of the listed risk phrases refer to section 16.

4 First aid measures• **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

• **After skin contact** The product is not skin irritating.

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- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** Do not induce vomiting; instantly call for medical help.
- **Information for doctor**
- **The following symptoms may occur:**
Headache
Dazed
Dizziness
Unconsciousness
Sickness
- **Treatment** If swallowed or in case of vomiting, danger of entering the lungs

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents**
Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or flue gases:**
Can be released in case of fire
Carbon monoxide (CO)
- **Protective equipment:** Wear self-contained breathing apparatus.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Keep away from ignition sources
Wear protective clothing.
- **Measures for environmental protection:**
Prevent material from reaching sewage system, holes and cellars.
Inform respective authorities in case product reaches water or sewage system.
If material reaches soil inform authorities responsible for such cases.
Do not allow to enter the ground/soil.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store in cool location.
- **Information about storage in one common storage facility:**
Store away from oxidizing agents.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
Protect from heat and direct sunlight.

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8 Exposure controls and personal protection

- **Additional information about design of technical systems:**

No further data; see item 7.

- **Components with critical values that require monitoring at the workplace:**

1308-38-9 dichromium trioxide (10-20%)

PEL 0.5 mg/m³

as Cr

REL 0.5 mg/m³

as Cr

TLV 0.5, A4 mg/m³

as Cr

1330-20-7 xylene, mixture of isomers (10-15%)

PEL 435 mg/m³, 100 ppm

REL Short-term value: 655 mg/m³, 150 ppm

Long-term value: 435 mg/m³, 100 ppm

(o-, m-, & p-isomers)

TLV Short-term value: 651 mg/m³, 150 ppm

Long-term value: 434 mg/m³, 100 ppm

BEI

- **CAS No. Designation of material % Type Value Unit**

No further data; see item 2.

- **Additional information:**

The lists that were valid during the compilation were used as basis.

- **Personal protective equipment**

- **General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

- **Breathing equipment:** Not necessary if room is well-ventilated.

- **Protection of hands:**

Solvent resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to 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.

Fluorocarbon rubber (Viton)

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

- **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

Fluorocarbon rubber (Viton)

- **Eye protection:** Safety glasses recommended during refilling.

- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

- **General Information**

Form: Pasty

Colour: Green

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- Smell:** Aromatic
- **Change in condition**
 - Melting point/Melting range:** Not determined
 - Boiling point/Boiling range:** 137°C
 - **Flash point:** 24°C (DIN 51755)
 - **Ignition temperature:** 400°C
 - **Self-inflammability:** Product is not selfigniting.
 - **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.
 - **Critical values for explosion:**
 - Lower:** 1.1 Vol %
 - **Steam pressure at 20°C:** 8 hPa
 - **Density at 20°C** 2.9 g/cm³ (DIN 53217)
 - **Solubility in / Miscibility with Water:** Not miscible or difficult to mix
 - **Viscosity:**
 - dynamic at 20°C:** 25000-30000 mPas (Brookfield)
 - **Solvent content:**
 - Organic solvents:** 10-15 %
 - **Solids content:** 85-90 %
 - **Additional information** Values are average.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:**
At temperatures above 250°C, depolymerisation and the release of starting monomers can arise

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant for skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitization:** No sensitizing effect known.

12 Ecological information:

- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.
At present there are no ecotoxicological assessments.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key number:**
08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

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08 01 00 wastes from MFSU and removal of paint and varnish
 08 01 11 waste paint and varnish containing organic solvents or other
 dangerous substances

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **ADR/RID-GGVS/E Class:** -
- **Remarks:** > 450 l: UN 1263 Paint, 3, III (ADR, 2.2.3.1.5)
- **Maritime transport IMDG/GGVSea:**
- **IMDG/GGVSea Class:** 3
- **UN Number:** 1263
- **Label** 3
- **Packaging group:** III
- **EMS Number:** F-E, S-D
- **Correct technical name:** PAINT
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label** 3
- **Packaging group:** III
- **Correct technical name:** PAINT

15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- **Risk phrases:**
10 Flammable.
- **Safety phrases:**
25 Avoid contact with eyes.
43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
60 This material and its container must be disposed of as hazardous waste.
- **National regulations**
- **Technical instructions (air):**
- **Class Share in %**
- **II 10-15**
- **Water hazard class:**
Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:** Laboratory department
- **Contact:** H. Schinagl
- *** Data compared to the previous version altered.**