

Safety data sheet

ISO 11014-1 / 91/155/EEC



Print: 13-01-12

Doc.No. sds-4311 rev.02

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Product name(s): LNT 25 **Autal TIG**
LNT 26

1. PRODUCT AND COMPANY DESIGNATION

Product Type TIG welding wire
Supplier Lincoln Smitweld B.V.
Address P.O. Box 253
NL-6500 AG Nijmegen
The Netherlands
Telephone +31.243.522.911
Telefax +31.243.522.456

2. DETAILS OF COMPOSITION

Type: Preparation or substance

Dangerous ingredients (if applicable):

| <u>Name</u> | <u>Concentration</u> | <u>CAS-no.</u> |
|--|----------------------|----------------|
| Manganese and/or manganese alloys or compounds (as Mn) | < 2 | 7439-96-5 |

3. POTENTIAL RISKS

Classification

During welding fumes will be formed. The content is depending on the wire type and the base material. Primarily iron oxide; secondarily complex oxides of manganese may be formed. Also ozone and nitrogen dioxide can be formed by arc radiation.

4. FIRST AID MEASURES

| | |
|------------------------------------|--|
| If inhaled | Not applicable (During welding fume can be inhaled: bring patient in fresh air; breath in fresh air deeply. Contact physician if necessary). |
| If skin contact occurs | Not applicable. |
| If it comes into contact with eyes | Not applicable. |
| If swallowed | Not applicable (During welding: see if inhaled). |
| Remarks | |

5. FIRE PREVENTION MEASURES

| | |
|------------------------------|---|
| Suitable extinguishing media | All known extinguishing substances may be used. |
| Remarks | |

6. MEASURE IN CASE OF UNINTENTIONAL RELEASE

| | |
|-----------------------------------|---|
| Personal protective measures | None. |
| Environmental protection measures | No special measures are required. |
| Cleaning methods | Dispose material according to point 13. |

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7. HANDLING AND STORAGE (for safety)

Handling No special measures are necessary.
Storage
Special requirements No special measures are necessary.
Incompatible products Not applicable.
Packaging material No special requirements.

8. EXPLOSION PREVENTION/PERSONEL PROTECTION

Measures to limit explosions No further measures.

Remark

During welding fumes will be formed. The content is depending on the wire type and the base material. Primarily iron oxide; secondarily complex oxides of manganese may be formed. Also ozone and nitrogen dioxide can be formed by arc radiation.

Possible reaction products:

| CAS-no | Description | MAC-value (NL) [mg/m ³] TGG 8 |
|------------|------------------|---|
| 7439-96-5 | Welding fume | 3,5 |
| 10028-15-6 | Manganese oxide | 1 |
| 10102-44-0 | Ozone | 0,12 (TGG 15 min.) |
| | Nitrogen dioxide | 4 |

Personal protection

Breathing protection

None (see item 16).

Ensure adequate ventilation. Possibly use breathing masks see UVV (VGB 15) paragraph 27.

Protection of hands

Use suitable hand protection.

Eye protection

Use protective glasses.

Protection of skin and body

Use well fitting working clothes and during welding a welding helmet.

Hygiene regulations

In case of dust or smoke: keep foodstuffs sealed.

Avoid direct skin contact.

Store and wash working clothes separately.

Clean face and hands thoroughly before eating/drinking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Further information

Physical state

Form

Wire.

Colour

Odour

None.

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9. PHYSICAL AND CHEMICAL PROPERTIES (contamination)

Other information

| | |
|---------------------|-----------------|
| pH value | Not applicable. |
| Melting point | 1000 - 1500°C. |
| Ignition point | Not applicable. |
| Explosion limits | Non-explosive. |
| Density | - |
| Solubility in water | Insoluble. |

10. STABILITY AND REACTIVITY

Avoid contact with Strong acid and base solutions.
Dangerous residual products Not known for unused product; see also item 8.

11. DATA REGARDING TOXICITY

| Acute | Component | Method | Value |
|---------------|-----------|------------|-------|
| - | - | - | - |
| Sensitisation | | Not known. | |
| Chronical | | Not known. | |

See also item 3.

12. ECOLOGICAL DATA

No harmful effects of this product on the environment are known.

13. DISPOSAL DATA

Product Contact government for regulations.
Packaging Contact government for regulations.

14. TRANSPORT INFORMATION

| | |
|---------------|-------------------------|
| ADR/RID | No dangerous substance. |
| ADN/ADNR | No dangerous substance. |
| IMDG | No dangerous product. |
| ICAO/IATA-DGR | No dangerous substance. |

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15. REGULATIONS

Protect yourself and others. Take precautions when welding. Follow your employers' safety practice, which should be based on manufacturers hazard data available to your employer. Fumes and gases can be dangerous to your health. Arc rays can injure eyes and burn skin. Electric shock can kill. Read and understand the manufacturers instructions and your employer's safety practices. Keep your head out of the fumes. Use enough ventilation, exhaust at the arc, or both, to keep fumes and gases from your breathing zone, and the general area. Wear correct eye, ear and body protection. Do not touch live electrical parts. U.K.: see WMA No.236 and 237 and HSE Guidance Note EH 40. U.S.A.: See American Standard Z 49.1 "Safety in Welding and Cutting", published by the American Welding Society, 550 Le Jeune Rd, Miami, Florida 33126-5699; OSHA Safety and Health Standards, 29 CFR 1910, available from U.S. Government printing office, Washington D.C. 20402-0001.

16. OTHER INFORMATION

All national/local prescriptions remain applicable. The data given in this sheet relate to the unused product, unless specified otherwise. During usage dangerous products can be formed (welding fume, radiation, etc.).

Above-mentioned values are no guarantee for product properties. They are based on current knowledge.

Change(s) in respect to the previous revision are indicated in **red**.

This Safety Data Sheet is prepared for data base purposes and is valid without signature.