

HAZARDOUS INGREDIENTS
MATERIAL SAFETY DATA SHEET

50739

FILLER METALS AND WELDING RODS

APPROVED BY U.S. DEPARTMENT OF LABOR "ESSENTIALLY SIMILAR" TO FORM LSB-OOS-4

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| SECTION I | REV: January 7 th , 2003 |
| MANUFACTURER'S NAME: GYTGÖLS BRUKS AKTIEBOLAG | PHONE NO: +46 122 43040 |
| ADDRESS (Number, Street, City, State and ZIP code): S-610 11 GRYTGÖL | SWEDEN |
| TRADE NAME: WELDMARK GB 74 | |
| AWS CLASSIFICATION: A5. 18 Class ER 70S-6 | |

SECTION II HAZARDOUS INGREDIENTS

| COVERING OR FLUX | WT. % | TLV (UNITS) | OTHER | WT. % | TLV (1) (UNITS) |
|------------------|-------|-------------|-----------|-------|--------------------------|
| | | | Iron | 97,5 | 5 mg/m ³ 2) |
| | | | Manganese | 1,40 | 1 mg/m ³ 2) |
| | | | | 1,60 | |
| | | | Silicon | 0,80 | 10 mg/m ³ 3) |
| | | | | 1,00 | |
| | | | Copper | 0,10 | 0,1 mg/m ³ 2) |
| | | | Copper | 0,10 | 1,0 mg/m ³ 4) |

- 1) OSHA -American Conferense of Governmental Industrial Hygienists 1989-90 ed.
- 2) As oxide fume
- 3) Nuisance 10 mg/m³ of total dust
- 4) As dust

SECTION III PHYSICAL DATA

Not Applicable

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Welding arc and sparks can ignite combustible products.

SECTION V HEALTH HAZARD DATA September 15, 1989

EFFECTS OF OVEREXPOSURE: Short term overexposure to welding fumes may result in dizziness, nausea or dryness or irritation of nose, throat or eyes.

EMERGENCY AND FIRST AID PROCEDURES: Remove to fresh air. Obtain medical attention.

SECTION VI REACTIVITY DATA

| | | | |
|-------------------------------------|----------|---|---------------------|
| STABILITY | UNSTABLE | | CONDITIONS TO AVOID |
| | STABLE | X | |
| INCOMPATABILITY (Material to avoid) | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS: | | | |
| HAZARDOUSE POLYMERIZATION | None | | |

SECTION VII SPILL OR LEAK PROCEDURES

Not Applicable

SECTION VIII SPECIAL PROTECTION INFORMATION (SEE NOTE)

RESPIRATORY PROTECTION (SPECIFY TYPE) Not generally required or in open well ventilated areas. Use weld fume respirator or air supplied respirator when welding in confined space where local exhaust and/or ventilation does not keep exposure below TLV:s 1)

| | |
|-------------|--|
| VENTILATION | LOCAL EXHAUST: Desirable in semi-open areas to help keep exposures below TLV:s 1) |
| | MECHANICAL (General): Essential in all areas where natural ventiation is not sufficient to keep exposures below TLV:s 1) |

EYE PROTECTION: Wear welding helmet with eye protection lens shade 10 or darker.

PROTECTIVE GLOVES: Welder's Protective Gloves

OTHER PROTECTIVE EQUIPMENT: Welder's leather protective aprons, leggings, boots, shoulder covers, hard hats, screens low reflectivity walls or booths.

SECTION IX SPECIAL PRECAUTIONS

Weld in well ventilated area. Avoid inhalation of welding fumes

OTHER PRECAUTIONS: For additional safety information on welding and cutting, see American National Standards Z49.1-1973, Safety in Welding and Cutting, and the Welding Handbook, Vol.1, Chapter 9, Safe Practices in Welding and Cutting. Both available from 2501 N.W. 7th street, Miami, FL 33125