



velleman®

Material Safety Data sheet

According to 91-155/EWG

VELLEMAN
(Brand)

LEAD-FREE SOLDER Sn 99.3% - Cu 0.7%
(Product name)

**SOLD100G6LF, SOLD100GLF, SOLD250GLF, SOLD500G8LF, SOLD500GLF,
SOLDERDISPLF**
(Product identification)

manufactured / imported by:

VELLEMAN NV.
Legen Heirweg, 33
9890 Gavere
Belgium

www.velleman.eu

The original manufacturer MSDS documents are available on request by authorities

Emergency phone: 112

Description:

Lead free solder containing 99.3% Sn and 0.7% Cu in various gauges and sizes

Composition/information on ingredients:

CAS nr.	identification	EC#	% by weight
7440-31-5	Sn (Tin)	231-141-8	99.3
7440-50-8	Cu (Copper)	231-159-6	0.7

Hazards identification:

Emergency Overview:

Avoid contact with eyes, avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Do not eat, drink, or smoke in work areas.

Route of entry: Inhalation, skin contact, ingestion.

Eye: May be hazardous in case of eye contact (irritant)

Skin:

May be hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Molten metal can cause severe burns !

Ingestion: May be hazardous in case of ingestion

Inhalation: Fume and/or dusts produced by this product may be hazardous in case of inhalation

Potential chronic health effects:

Fume and/or dusts produced may be hazardous in case of ingestion or inhalation. May be hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant). Non-corrosive for skin. non-permeator by skin.

First aid and measures:

Eye Contact:

Check for and remove any contact lenses. In case of contact immediately flush eyes with plenty of water for at least 15 minutes. Seek medical aid.

Skin Contact:

In case of contact immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Cover irritated skin with emollient. Seek medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. In case of hazardous contact wash with disinfectant soap and cover the contaminated skin with anti-bacterial cream. Seek medical attention immediately.

Inhalation:

If inhaled, Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities are swallowed seek medical attention immediately. Loosen tight clothing such as collar, tie, belt or waistband

Fire fighting measures:

Fire Hazard Summary: This material is non-flammable and non-explosive

Auto-ignition temperature/Flash points/Flammable limits: Not applicable

Products of combustion: Not available

Extinguishing Media: Not applicable

Special Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Unusual Hazards: None.

Accidental release measures:

Small spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose according to local and regional authority requirements.

Large spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Handling and storage:

Handling:

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Storage:

Store in a cool, dry, and well-ventilated area. Keep container tightly closed.

Exposure controls/personal protection:

Signs and Symptoms of Exposure:

Not available

Medical Conditions Generally Aggravated by Exposure:

Repeated or prolonged exposure is not known to aggravate medical condition

Engineering controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protective equipment:

Eyes: Splash-proof goggles

Skin: Lab coat, gloves

Respiratory: dust respirator, be sure to use an approved/certified respirator.

Personal protective equipment in case of spill:

Eyes: Splash-proof goggles

Skin: full suit, gloves, boots

Respiratory: a self contained breathing apparatus should be used to avoid inhalation of the product.

Note:

Suggested protective clothing might not be sufficient, consult a specialist before handling this product

Physical and chemical properties

Appearance:	Solid
Molecular weight:	Not applicable
Chemical formula:	Not applicable
Ph:	Not applicable
Acid value:	Not available
Boiling/condensation point:	Not available
Melting/freezing point:	217~218°C
Critical temperature:	Not available
Vapor pressure:	Not applicable
Vapor density:	Not available
Volatility:	Not available
Odor threshold:	Not available
Odor:	Not available
Taste:	Not available
Color:	Silver grey
Specific gravity:	7.38
Evaporation rate:	Not available
VOC:	Not available
Viscosity:	Not available
LogKow:	insoluble in water and oil
Ionicity (water)	Non-ionic
Dispersion:	not dispersed in water, methanol, diethyl ether, n-octanol, acetone
Solubility	insoluble water, methanol, diethyl ether, n-octanol, acetone

Physical chemical comments: Not available

Stability and reactivity

Stability: stable in normal conditions, over melting point will emit toxic tin oxides (Tin)

Incompatibility with substances: slightly reactive with oxidizing agents, acids, moisture

Hazardous Decomposition Products: Not available

Hazardous Polymerization: Will not occur

Corrosivity: Not considered corrosive for metals and glass

Toxicological information

Toxic and chronic effects on humans:

Fumes and/or dusts produced by this product may irritate eyes, digestive system and respiratory tract (Tin) and may be hazardous in case of ingestion or inhalation.

This product may be hazardous in case of skin contact (irritant, sensitizer) or eye contact (irritant).

Non-corrosive for skin, non-permeator by skin.

This product may be toxic to kidneys, lungs, liver, mucous membranes, upper respiratory tract, skin, eye, lens or cornea. Repeated or prolonged exposure to the substance can produce target organs damage.

Mutagenicity:	Not available
Teratogenicity:	Not available
Developmental toxicity:	Not available

Special remarks:

Prolonged and repeated exposure to tin oxide fumes may result in benign pneumoconiosis (stannosis) (Tin)

Toxicity to animals: LD50: N/A, LC: N/A.

Ecological information:

Environmental Toxicity:	Not available
BOD and COD:	Not available
Biodegradable/OECD:	Not available

Mobility:

Not available, possibly hazardous short term degradation products not likely. However, long term degradation products may arise.

Toxicity of the products of biodegradation:

The product itself and its products of degradation are not toxic

Disposal considerations:

Waste information:

Waste must be disposed of in accordance with federal, state and local environmental control regulations

Waste stream: not available

Transport information:

DOT (Department of Transportation):	Not a DOT controlled material
Special provisions:	Not applicable
IMO/IMDG classification:	Not controlled under IMDG
Marine pollutant:	Not available
ADR/RID classification:	Not controlled under ADR
ICAO/IATA:	Not controlled under IATA

Regulatory information:

HCS:	Class: sensitizing substance
HCS classification:	Class: Target organ effects
International regulations:	Not available
EINECS:	36/38-irritating to eyes and skin
DSCL (EEC):	43-may cause sensitization by skin contact
International lists:	No products were found

Other information:

Keep away from children

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

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