

1. PRODUCT AND COMPANY IDENTIFICATION			
Product name	<b>METAL ALLOY 47 °C / 117 °F</b>	<b>14.1.</b>	Date revised :2013
EC n°			
Manufacturer / distributor	<b>DAC VISION</b> 22 av. Joliot Curie - 17180 PERIGNY - FRANCE		
Phone number/mail	+33 5 46 27 27 24 - Fax : +33 5 46 27 14 36 - <a href="mailto:dacvision.eu@dacvision.com">dacvision.eu@dacvision.com</a>		
Emergency phone number	see item 16		
2. HAZARD IDENTIFICATION			
Phrase R	-	CLP- H	
Phrase S	-	CLP- P	
3. COMPOSITION, INFORMATION ON INGREDIENTS:			
Low melting point alloy use for work holding of plastic lens without deformation. Bismuth (Bi): 44.7% n°CAS: 7440-69-9 - Lead (Pb): 22.6% n°CAS: 7439-92-1 - Tin (Sn): 8.3% n°CAS: 7440-31-5 Cadmium (Cd): 5.3% n°CAS: 7440-43-9 - Indium (In): 19.1% n°CAS: 7440-74-6			
4. FIRST AID MEASURES :			
Inhalation	In case of inhalation of vapors, stop exposure and move to fresh air. Seek medical advice at once.		
Eye contact	Do not rub eyes. Do not close eyes firmly. Wash with cool running water for at least 15 minutes. Seek medical advice at once.		
Skin contact	Wash with soap and water.		
Ingestion	If conscious, give large quantity of water and induce vomiting. Seek medical advice at once.		
Environment	See item 12 and 13.		
5. FIRE FIGHTING MEASURES			
Extinguishing media	All approved extinguishing media for environment fires are suitable.		
Inappropriate extinguishing media			
Specific hazards	See item 11.		
Personal protection	Fire fighters should wear full protective clothing and approved self-contained breathing apparatus. Avoid production of dust. An approved respirator against dust should be worn.		
6. ACCIDENTAL RELEASE MEASURES :			
Individual and environmental protection	Prevent spreading and product from entering drains, surface water, etc.		
Cleaning up	The spilled material should be collected by any suitable means and returned for recovery. Avoid creation of dust.		
7. HANDLING AND STORAGE:			
Handling	The best storage conditions are 20°C ±5°C, 50%HR ±15% HR, in a healthy location (without dust, grease, or water), and products being in their original packaging, out of direct sunlight.		
Storage	Avoid breathing dust or vapours and eye or skin contact. Use adequate ventilation when dust or fumes are formed.		

Product name: **METAL ALLOY 47 °C / 117 °F**

**8. EXPOSURE CONTROL / PERSONAL PROTECTION** VME lead and compounds: 0,15 mg/m3  
VME cadmium and compounds: 0,05 mg/m3

<b>Respiratory protection</b>	Adequate ventilation must be done to maintain the concentration of dust in the air under the limit value of allowed exhibition. Regular analysis of the air is necessary to maintain concentration in the air at an acceptable level.
<b>Hands protection</b>	Use suitable gloves.
<b>Eye protection</b>	Wear safety glasses or face shield if eye contact is possible.
<b>Skin protection</b>	Wear protection clothes. Remove contaminated clothes before leaving working places.
<b>General</b>	Handle with elementary precautions of hygiene and neatness. Do not eat, drink, or smoke on the work area. Wash hands abundantly before eating, drinking or smoking. Avoid inhalation or ingestion of smoke.

VME tin and compounds: 0,1 mg/m3

**9. CHEMICAL AND PHYSICAL PROPERTIES :**

<b>Apparence</b>	Metal	<b>Decomposition temperature</b>	Not determinated
<b>Colour</b>	Silver white	<b>Viscosity</b>	Not determinated
<b>Odour</b>	Odourless	<b>Solubility</b>	Not soluble in water
<b>pH</b>	Not applicable	<b>Pressure of vapor</b>	Not applicable
<b>Boiling point:</b>	Not available		
<b>Melting temperature</b>	47 °C - 117°F		
<b>Flash point</b>	Not applicable.		
<b>Density</b>	8.95 g/cm3		
<b>Inflammation temperature</b>	Not available		

**10. STABILITY AND REACTIVITY:**

<b>Stability</b>	Products are stable and non reactive under normal conditions of use and storage.
<b>Conditions to avoid</b>	None.
<b>Materials to avoid</b>	Strong acid or oxidizers.
<b>Decomposition products</b>	When heated in air, toxic fumes of Cd or Pb may be formed as well as irritating indium oxides.

**11. TOXICOLOGICAL INFORMATION:**

**Acute toxicity:**

<b>Inhalation</b>	The symptoms can be preceded by a latent period. In severe cases, fatal chemical pneumonia has been described. In: The inhalation of smoke of oxide can result in an inflammatory reaction.
<b>Ingestion</b>	Bi: The excessive ingestion of salts of bismuth can damage loins and liver. Cd: Ingestion results in nausea, vomiting, diarrhea and abdominal cramps. Pb: Overexposure through inhalation and/or ingestion of lead dust or fumes may result in loss of appetite, anemia, insomnia, headache, irritability, muscle and joint pains, muscle weakness, gastritis and liver changes. Sn: The ingestion of important quantities provokes vomit, but no permanent damage.
<b>Skin contact</b>	Cd: Cadmium fumes can be irritating to mucous membranes.
<b>Eye contact</b>	Cd: The direct contact of smoke with eyes can induce a local irritation. Cd: Cadmium fumes can be irritating to mucous membranes. Bi: The direct contact of smoke or dust with eyes can induce a local irritation.
<b>Chronic toxicity</b>	In: Indium has teratogenic effects
<b>Irritation/ sensitization</b>	Cd: Cadmium fumes can be irritating to mucous membranes. Cd: Irritating for eyes, nose and throat. No skin sensitization reported. Bi: The direct contact of smoke or dust with eyes can induce a local irritation.

**12. ECO-TOXICOLOGICAL INFORMATION:**

<b>Degradability</b>	Surface tension: unknown. Absorption/desorption: unknown.
<b>Accumulation</b>	Potential of bio accumulation: unknown. Bio Amplification: unknown.
<b>Different harmful effects :</b>	Ce produit ne contient pas de substances nuisantes pour la couche d'ozone. Potential of impoverishment of the ozone layer: not applicable. Potential of creation of photochemical ozone: not applicable Effects in the installations of treatment of waste waters: unknown.
<b>Effects with short and long terms</b>	Ecotoxicity Effects with short and long terms on: unknown. Aquatic bodies: unknown. Ground bodies: unknown. Flora and fauna ground: unknown.

**13. DISPOSAL:**

<b>Code EWC (European waste code)</b>	12 01 99 (ADEME)
<b>Contaminated containers recommendations</b>	Dispose according to local regulations.

**14. TRANSPORT INFORMATION:**

Not restricted.

Labelling: Box.

Product name: **METAL ALLOY 47 °C / 117 °F**

**15. REGULATORY :**

<b>Phrase R</b>	-	<b>CLP- H</b>	
<b>Phrase S</b>	-	<b>CLP- P</b>	

**16. OTHER INFORMATION:**

**EMERGENCY PHONE NUMBERS:**

FR: FRANCE: ORFILA: (00 33) 01 45 42 59 47 UNITED KINGDOM: NATIONAL CHEMICAL EMERGENCY CENTER CULHAM LABORATORY: (00 44) 01235 463076 ITALY: LABORATORI DE TOSSICOLOGIA: (00 39) 0266 10 10 17 SPAIN: SERVICIO DE INFORMACION TOXICOLOGIA: (00 34) 91 562 04 8 PORTUGAL: SEVICO TOXICOLOGIA: (00 351) 213 30 3259  
 GERMANY: BERATUNGSSTELLE BEI VERGIFTUNGEN: (00 49) 06131 19228:

Autre :

This information is based on the data sheet current security manufacturers and suppliers. They do not represent a guarantee of product properties. They do not teach in any case the product user to know and enforce all laws regulating its business and fulfill its obligations when using this product. Product intended for industrial use. Handle with care basic hygiene and cleanliness. Do not use for applications other than those listed on the sheet.