

MATERIAL SAFETY DATA SHEET (MSDS)

Substance LFM 71W INP

Revision Date : Jun/ 17/ 2022

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION		
A. PRODUCT NAME	LFM 71W INP	
B. MATERIAL	: METAL ALLOY	
C. PRODUCT'S USE	: SOLDER, SOLDERING	
D. MANUFACTURE'S NAME	: LT Materials Co.,Ltd.	
E. ADDRESS	: 113-19,Dangha-ro, Namsa-Myeon, Cheoin-Gu, Yongin-Si,	
	Gyeonggi-Do, Korea	
	Tel : 82- 31- 330- 1000	
	Fax : 82-31- 335 – 6205~6	
2. HAZARD IDENTIFICATION		
A. PRODUCT HAZARD CLASS	S	
Skin hypersensitivity Class :	1	
	(single exposure) Class : 2 (respiratory system)	
	(repeated exposure) Class : 1	
Aquatic environmental toxicit		
•		
B. LABEL COMTENT		
_ , _, , , _, , _, , ,		



-. SIGNAL : Danger

- -. HAZARD WORD
 - H317 May cause an allergic skin reaction
 - H371 May cause damage to organs
 - H372 Causes damage to organs through prolonged or repeated exposure
 - H373 May cause damage to organs through prolonged or repeated exposure
 - H412 Harmful to aquatic life with long lasting effects

-. PREVENTION WORD

□ PREVENTION

P260 Do not breathe dust/fumes/gas/mist/vapours/spray.

P264 Wash ... thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection. [As modified by IV ATP]

P302+352 IF ON SKIN: Wash with plenty of water/... [As modified by IV ATP]

P308+311: If exposed or concerned: Call a POISON CENTER/ doctor/... [Added by IV ATP]

P314: Get medical advice/attention if you feel unwell.

P333+313 IF SKIN IRRITATION OR A RASH OCCURS: GET MEDICAL ADVICE/ATTENTION.

P362+364: Take off contaminated clothing and wash it before reuse. [Added by IV ATP]

□ STORAGE

P405 Store locked up.

P501 Dispose of contents/ container to an approvedlandfill

C. OTHER HAZARD

: No information

3. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical name	Contents	CAS No.
Tin	REM	7440-31-5
Silver	3.3 ~ 3.7%	7440-22-4
Indium	3.8 ~ 4.2%	7440-74-6
Bismuth	0.4 ~ 0.6%	7440-69-9
FLUX	10.5 ~ 11.5%	Trade secret

4. FIRST AID MEASURES

A. In case of eye contact

Get medical advice and attention if you feel unwell.

B. In case of skin contact

Wash with plenty of soap and water.

Get medical advice and attention if you feel unwell.

If skin irritation or rash occurs, get medical advice and attention.

Take off contaminated clothing and wash it beforereuse

C. In case of inhalation

Get medical advice and attention if you feel unwell.

D. In case of ingestion

Get medical advice and attention if you feel unwell.

E.	Most important symptoms/effects, acuteand delayed
	If inhaled : Wheezing.
	The effect through prolonged or repeated exposure : May cause eye, nose, throat, skin discoloration.
	Eye / skin redness, ocular pain, cough, headache, shortness of breath, sore throat,
	abdominal pain,nausea, vomiting.
	Delayed symptom : Metal fume fever.
F.	Indication of immediate medical attentionand special treatment needed, if necessary
	Rest and medical follow-up are indispensable.
<mark>5. Fl</mark>	RE FIGHTING MEASURES
Α.	Suitable extinguishing media
	Small fires: Dry chemical, CO2 or water spray.
	Large fires: Water spray, fog or regular foam.
В.	Prohibited media :
	Water
C.	Specific hazards with regard to fire-fighting :
	No information
D.	Protection for firefighters :
	Fighters should wear protective clothing, respirator, rubber boots and fireproof clothing.
	And should work from the windward side.
6. AC	CIDENTAL RELEASE MEASURES
Α.	Personal precautions, protective equipmentand emergency procedures :
	Do not touch or walk through spilled material.
В.	Environmental precautions :
	Pay attention not to cause the influence on theenvironment by discharging into rivers.
	Do not release into the environment.
С.	Methods and materials for containment and cleaning up :
	Gather up, pack in a bag and dispose. Carefully collect remnant and move to a safe place.
7. H/	ANDLING AND STORAGE
Α.	Handling
	Technical measures :
	Provide ventilation system and use necessarypersonal protective equipment as described in
	in"Section 8 - EXPOSURE CONTROLS / PERSONALPROTECTION".
	Safe handling advice :
	Prohibit use of heat, sparks, and fire in thesurrounding area.
	Evacuate area due to explosion risk in case of fire.
	Do not subject to rough handling such as grinding, shock and friction.
	Do not contact, breathe or swallow
	Use only outdoors or in a well-ventilated area.
	Contaminated work clothing should not be allowed outof the workplace.

Avoid release to the environment.

Hygiene measures :

Wash hand thoroughly after handling.

Do not eat, drink or smoke when using this product.

B. Storage

Suitable storage conditions :

The storage facility should be designed with fire-proofconstruction and beams should use a non-combustible material.

The storage floor should be protected from waterpenetration, or should have water-proof construction.

The storage facility should be provided withnecessary lighting, lighting equipment, and ventilatorto store and handle dangerous goods.

Keep away from heat, sparks, open flames and hotsurfaces. No smoking.

Store away from oxidants

Store in a well-ventilated and cool place keepingcontainer tightly closed.

Protect from sunlight.

Store locked up.

Refer to "Section 10 - STABILITY ANDREACTIVITY".

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

A. Control parameters

Material name	ACGIH (TLV)	OSHA (PEL)
Tin	2mg/m3	2mg/m3
Silver	0.1mg/m3	0.01mg/m3
Indium	0.1mg/m3	0.1 mg/m3

B. Engineering measures

Workplace storing or handling this product should beequipped with eyewashing station and safety shower. Install ventilation system to keep exposure to airbornecontaminants below the exposure limit if dust and and fume generate in the process handling at elevatedtemperature.

C. Personal protective equipment

Respiratory protection : If necessary, wear appropriate respiratory protectiveequipment.

Hand protection : Wear appropriate protective gloves.

Eye protection : Wear appropriate protective glasses (ordinary glassestype, ordinary glasses type with side plates, goggletype)

Skin and body protection : Wear suitable protective clothing and face protection.

Specific hygiene measures : Provide eye washing tools and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

- A. Appearance : Paste
- B. Color : Grey
- C. Odor : Scentless
- **D.** Odor threshold : No data

E. pH : No data					
F. Melting point : 205-212℃	F. Melting point : 205-212℃				
G. Boiling point : No data	G. Boiling point : No data				
H. Flash point : No data					
I. Flammability(Solid,Gas) :	No data				
J. Flammability or explosive					
K. Vapor pressure : No data					
L. Vapor density : No data					
M. Relative density : No data					
N. Specific gravity : 7.4					
O. Resolution temperature : I	No data				
P. Solubility(ies) : Non-pertin	ence				
Q. Partition coefficient: n-octa	anol/water : Non-pertinence)			
R. Auto-ignition temperature	: Non-pertinence				
S. Decomposition temperatur	re : Non-pertinence				
T. Viscosity : Non-pertinence)				
10. STABILITY AND REACTI	VITY				
A. Stability :					
Stable in the air at the norm	nal temperature.				
B. Reactions :					
May react with strong oxidi	zing compound, acids and	strong bases.			
C. Hazardous decomposition	products :				
Non-pertinence					
D. Conditions to avoid :					
Non-pertinence					
E. Materials to avoid :					
Strong oxidizing compound	ę				
11. TOXICOLOGICAL INFOR	RMATION				
A. Acute toxicity :					
Material name	Oral LD50	Skin LD50]		
Silver	>5000 mg/Kg(Rat)	>2000mg/Kg(Rat)]		
B. Skin corrosive / irritation :	No data		-		
C. Serious eyes damage /Eyes irritation : No data					
D. Respiratory organs sensitization :					
When fume inhales, may cause allergy, edge breath or dyspnea.					
E. Skin sensitization : May cause allergy skin reaction.Class 1					
F. Original generative cell variation : No data					
G. Carcinogenicity : No inform	nation				
H. Reproduction toxicity : No	information				

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15. REGULATORY INFORMATION

- A. Regulation by Chemical Substance Control Act : Not applicable
- B. Regulation under dangerous goods safety management law : Not applicable
- $\ensuremath{\textbf{C}}\xspace$ Regulation by waste management law : designated wastes

E. Other domestic and foreign regulations : Not applicable

16. OTHER INFORMATION

A. The information contained in this data sheet does notconstitute an assessment of workplace risks. Theabove information is based on the present state ofour knowledge of the product at the time ofpublication It is given in good faith, no warranty is implied with the respect to the quality or the specification of the product The user must satisfy himself that the product is entirely suitable for his purpose.