

MATERIAL SAFETY DATA SHEET (MSDS)

Substance LFM 70W INP

Revision Date : Mar/ 24/ 2022

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

I. CHEINICAL PRODUCT AND	COMPANTIBENTIFICATION
A. PRODUCT NAME	LFM 70W 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	6
Skin hypersensitivity Class :	1

Specific target organ toxicity (single exposure) Class : 2 (respiratory system) Specific target organ toxicity (repeated exposure) Class : 1 Aquatic environmental toxicity.Long-term : Class : 3

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	7.5 ~ 8.5%	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.

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 : 197-208℃	F. Melting point : 197-208 ℃				
G. Boiling point : No data					
H. Flash point : No data					
I. Flammability(Solid,Gas)	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 norr	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					
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
- C. 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.