

Material Safety Data Sheet

1. Identification of the substance, preparation and of the company, Undertaking.

Product details:

·Trade name: L80, L85, L65, Ch13.

·MSDS number: 02

·Application of the substance / the preparation: Pigment

·Manufacturer/Supplier:

SAMIN FAM TEJARAT Co.

Floor 3rd, No 513, Corner of Alley Khansari, Saadi St, Tehran, Iran.

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2. Composition/information on ingredients:

·Chemical characterization

·Description: Mixture of substances listed below with nonhazardous additions.

·components:

- i. Aluminum powder, coated: 60-80%
- ii. HA(High boiling point aromatic hydrocarbon): 20-40%

3. Hazards identification:

·Hazard description: flammable

·Information concerning particular hazards for human and environment:

R11 Highly flammable.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

·Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4. First-aid measures:

·General information:

Take affected persons out into the fresh air.

Take affected persons out of danger area and lay down.

·After inhalation: Supply fresh air; consult doctor in case of complaints.

·After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Generally the product does not irritate the skin.

- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Induce vomiting; call for medical help immediately.

5. Fire-fighting measures:

- Suitable extinguishing agents:
 - Special powder for metal fires. Dry sand.
 - Do not use water.
- For safety reasons unsuitable extinguishing agents:
 - Water, Carbon dioxide.
- Protective equipment: Wear fully protective suit.

6. Accidental release measures:

- Person-related safety precautions:
 - Wear protective equipment. Keep unprotected persons away.
 - Remove persons from danger area.
 - Keep away from ignition sources.
 - Avoid formation of dust.
- Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting:
 - Ensure adequate ventilation.
 - Do not flush with water or aqueous cleansing agents
 - Absorb with liquid-binding material (sand, diatomite, and acid binders, universal binders, sawdust).

7. Handling and storage:

Handling:

- Information for safe handling:
 - Keep receptacles tightly sealed.
 - Store in cool, dry place in tightly closed receptacles.
 - Keep away from heat and direct sunlight.
 - Prevent formation of dust.
 - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- Information about fire - and explosion protection:
 - Keep ignition sources away - Do not smoke.
 - Protect from heat.
 - Protect against electrostatic charges.

Storage:

- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Store away from flammable substances.
- Further information about storage conditions:
 - Store in cool, dry conditions in well-sealed receptacles.
 - Protect from humidity and water.

8. Exposure control /personal protection:

Ingredients with limit values that require monitoring at the workplace:

Aluminum powder: stabilized

OES Long-term value: 4mg/m³

·Personal protective equipment:

·General protective and hygienic measures:

·Wash hands before breaks and at the end of work.

·Do not eat, drink, smoke or sniff while working.

·Keep away from foodstuffs, beverages and feed.

·Immediately remove all soiled and contaminated clothing

·Respiratory protection: Suitable respiratory protective device recommended.

·Protection of hands:

Solvent resistant gloves

Preventive skin protection by use of skin-protecting agents is recommended.

Prior to contact with the water insoluble substance / product / preparation apply

Water-soluble skin-protecting agent (fat-free film former or O/W-emulsions).

·Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on

Further marks of quality and varies from manufacturer to manufacturer.

As the product is a preparation of several substances, the resistance of the

Glove material cannot be calculated in advance and has therefore to be checked prior to the application.

·Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the

Protective gloves and has to be observed.

·Eye protection: Safety glasses

·Body protection: Protective work clothing

9. General Information:

Form: Pasty

Color: Silver-colored

Odour: Characteristic

·Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 162-205°C

·Flash point: ≥60°C

·Ignition temperature: 240°C

Self-igniting: Product is not selfigniting.

·Danger of explosion: Product is not explosive. However, formation of Explosive air/vapor mixtures are possible.

·Explosion limits:

Lower: 0.6 Vol %

Upper: 7.5 Vol %

·Vapor pressure at 20° C: 5 hPa

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- Density: 1.3 - 2.0 g/cm³
- Solubility in / Miscibility with water: Insoluble.

10. Stability and reactivity:

- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
No decomposition if used and stored according to specifications.
- Dangerous reactions
Reacts with acids, alkalis and oxidizing agents.
Danger of explosion when dry.
Reacts when heated with acids and alkalis releasing hydrogen.
- Dangerous decomposition products: No dangerous decomposition products known.

11. Ecological information:

- General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

12. Disposal considerations:

- Product:
·Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
·Recommendation: Disposal must be made according to official regulations.

13. Transport information:

·Land transport ADR/RID (cross-border)

·ADR/RID class: 4.1 Flammable solids.

·Danger code (Kemler): 40

·UN-Number: 1309

·Packaging group: II

·Hazard label 4.1

·Maritime transport IMDG:

·IMDG Class: 4.1

·UN Number: 1309

·Label 4.1

·Packaging group: II

·Marine pollutant: No

·Proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Aluminum pigment paste)

·Air transport ICAO-TI and IATA-DGR:

·ICAO/IATA Class: 4.1

·UN/ID Number: 130 9

·Label 4.1

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·Packaging group: II

·Proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Aluminum pigment paste)

14. Toxicological information:

·Primary irritant effect:

·On the skin: No irritant effect.

·On the eye: No irritating effect.

·Sensitization: No sensitizing effects known.

·Additional toxicological information:

Inhalation of concentrated vapors as well as oral intake will lead to anesthesia-like conditions and headache, dizziness, etc.

15. Regulatory information:

·Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

·Risk phrases:

11 Highly flammable.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

66 Repeated exposures may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

·Safety phrases:

7/8 Keep container tightly closed and dry.

43 In case of fire, use dry sand. Never use water.

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

16. Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: Technology Dep.

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