

**U.S. DEPARTMENT OF LABOR**  
**WAGE AND LABOR STANDARDS ADMINISTRATION**  
 Bureau of Labor Standards

# MATERIAL SAFETY DATA SHEET

| SECTION I   |   |
|---|---|
| MANUFACTURER'S NAME<br>Ronson Metals Corporation  | EMERGENCY TELEPHONE NO.<br>(201) 589-1380 |
| ADDRESS (Number, Street, City, State, and ZIP Code)<br>55 Manufacturers Place, Newark, NJ 07105 |   |
| CHEMICAL NAME AND SYNONYMS<br>Mischmetal/Iron Alloy   | TRADE NAME AND SYNONYMS<br>Flint          |
| CHEMICAL FAMILY<br>Lanthanides  | FORMULA                                   |

| SECTION II - HAZARDOUS INGREDIENTS                    |   |             |   |   |             |
|---|---|-------------|---|---|-------------|
| PAINTS, PRESERVATIVES, & SOLVENTS                     | % | TLV (Units) | ALLOYS AND METALLIC COATINGS                          | % | TLV (Units) |
| PIGMENTS  |   |             | BASE METAL Mischmetal & Iron                          |   |             |
| CATALYST  |   |             | ALLOYS Cerium/Iron; Lanthanum/Iron; Praseodymium/Iron |   |             |
| VEHICLE   |   |             | METALLIC COATINGS N/A                                 |   |             |
| SOLVENTS  |   |             | FILLER METAL PLUS COATING OR CORE FLUX N/A            |   |             |
| ADDITIVES   |   |             | OTHERS  |   |             |
| OTHERS  |   |             | Note: Designated as a flammable solid.                |   |             |
| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES |   |             |   | % | TLV (Units) |
|   |   |             |   |   |             |
|   |   |             |   |   |             |
|   |   |             |   |   |             |

| SECTION III - PHYSICAL DATA |  |               |                                       |                |
|-----------------------------|--|---------------|---------------------------------------|----------------|
| BOILING POINT (°F.)         | approx.                                | 6800°F        | SPECIFIC GRAVITY (H <sub>2</sub> O=1) | 8.3            |
| VAPOR PRESSURE (mm Hg.)     |  | N/A           | PERCENT VOLATILE BY VOLUME (%)        | N/A            |
| VAPOR DENSITY (AIR=1)       |  | N/A           | EVAPORATION RATE (H <sub>2</sub> O=1) | N/A            |
| SOLUBILITY IN WATER         |  | reacts slowly | Melting Point                         | approx. 1700°F |
| APPEARANCE AND ODOR         | Metallic; dark gray to black; odorless |               |                                       |                |

| SECTION IV - FIRE AND EXPLOSION HAZARD DATA |  |                  |           |
|---|--|------------------|-----------|
| FLASH POINT (Method used)                   | N/A  | FLAMMABLE LIMITS | Let / Let |
| EXTINGUISHING MEDIA                         | Dry Na Cl, dry sand  |                  |           |
| SPECIAL FIRE FIGHTING PROCEDURES            | Cover with dry alkali, halide or dry sand  |                  |           |
| UNUSUAL FIRE AND EXPLOSION HAZARDS          | Fine powders are pyrophoric and may ignite by friction. Flints may ignite at temperatures above 500°F. |                  |           |

| SECTION V - HEALTH HAZARD DATA     |  |
|------------------------------------|--|
| THRESHOLD LIMIT VALUE              | Not known; very low for ingestion  |
| EFFECTS OF OVEREXPOSURE            | Low to moderate toxicity for ingestion. Symptoms of toxicity include labored respiration, walking on the toes with arched back and |
| EMERGENCY AND FIRST AID PROCEDURES | Removal from area.<br>Examination by physician.  |

| SECTION VI - REACTIVITY DATA         |                |     |  |
|--------------------------------------|----------------|-----|--|
| STABILITY                            | UNSTABLE       |     | CONDITIONS TO AVOID Material will dissolve readily |
|                                      | STABLE         |     | in acid. Material reacts very slowly in water.     |
| INCOMPATIBILITY (Materials to avoid) |                | N/A |  |
| HAZARDOUS DECOMPOSITION PRODUCTS     |                | N/A |  |
| HAZARDOUS POLYMERIZATION             | MAY OCCUR      |     | CONDITIONS TO AVOID                                |
|                                      | WILL NOT OCCUR | X   |  |

| SECTION VII - SPILL OR LEAK PROCEDURES                    |  |
|---|--|
| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED |  |
| Material can be swept up for disposal.                    |  |
| WASTE DISPOSAL METHOD                                     |  |
| Material can be disposed of by burning.                   |  |

| SECTION VIII - SPECIAL PROTECTION INFORMATION |                      |                |   |
|---|----------------------|----------------|---|
| RESPIRATORY PROTECTION (Specify type)         |                      | N/A            |   |
| VENTILATION                                   | LOCAL EXHAUST        | N/A            | SPECIAL   |
|   | MECHANICAL (General) |                | OTHER   |
| PROTECTIVE GLOVES                             | not necessary        | EYE PROTECTION | To prevent particles from being thrown into the eyes. |
| OTHER PROTECTIVE EQUIPMENT                    |                      |                |   |

| SECTION IX - SPECIAL PRECAUTIONS   |  |
|--|--|
| PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  |  |
| Small pieces or powder should be stored under kerosene or oil. Keep away from flame or water. Store in metal containers. |  |
| OTHER PRECAUTIONS  |  |
| Keep away from excessive moisture which will cause deterioration and can liberate flammable gas very slowly.             |  |