

Stamping Lubricants **Redefined** 

IRMCC

Safety Data Sheet 954 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/14/2014 Revision date: 07/14/2015 Supersedes: 05/18/2015

| SECTION 1: Identification of the subs  | stance/mixture and of the company/undertaking   |  |  |
|--|---|--|--|
| 1.1. Identification  | Stance/mixture and of the company/undertaking   |  |  |
| Product form   | : Mixture   |  |  |
| Product name   | : IRMCO INTERNATIONAL COMPOUND #2 ®   |  |  |
| Product code   | : 970-000   |  |  |
| Other means of identification  | : 970-000<br>: IC #2, IRMCO 970-000, DD P/N 07Y00002, 5198563   |  |  |
|  |   |  |  |
|  | ance or mixture and uses advised against  |  |  |
| Use of the substance/mixture   | : Petroleum-based metalworking lubricant/anti-seize compound.   |  |  |
| Use of the substance/mixture   | : Industrial use  |  |  |
| 1.3. Details of the supplier of the safety d   | lata sheet  |  |  |
| IRMCO<br>2117 Greenleaf Street<br>Evanston, IL 60202 - USA<br>T 847-864-0255 - F 847-864-0012<br>SDS@irmco.com - www.IRMCO.com |   |  |  |
| 1.4. Emergency telephone number  |   |  |  |
| Emergency number   | : 847-864-0255<br>Monday-Friday 8:30 AM - 4:30 PM Central Standard Time (CST)   |  |  |
|  |   |  |  |
| SECTION 2: Hazard(s) identification  |   |  |  |
| 2.1. Classification of the substance or mi   | ixture  |  |  |
| Classification (GHS-US)  |   |  |  |
| Skin Irrit. 2  | H315 - Causes skin irritation   |  |  |
| Eye Irrit. 2B  | H320 - Causes eye irritation  |  |  |
| Full text of H-phrases: see section 16   |   |  |  |
|  |   |  |  |
| 2.2. Label elements  |   |  |  |
| GHS-US labeling  |   |  |  |
| Hazard pictograms (GHS-US)   | GHS07   |  |  |
| Signal word (GHS-US)   | : Warning   |  |  |
| Hazard statements (GHS-US)   | : H315 - Causes skin irritation   |  |  |
|  | H320 - Causes eye irritation  |  |  |
| Precautionary statements (GHS-US)  | <ul> <li>P264 - Wash hands thoroughly after handling</li> <li>P280 - Wear eye protection, protective gloves</li> <li>P302+P352 - If on skin: Wash with plenty of water</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> </ul> |  |  |
| 2.3. Other hazards   |   |  |  |
| No additional information available  |   |  |  |
| 2.4. Unknown acute toxicity (GHS US)   |   |  |  |
| Not applicable   |   |  |  |
| SECTION 3: Composition/information   | n on ingredients  |  |  |
| 3.1. Substance   |   |  |  |
| Not applicable   |   |  |  |
| 3.2. Mixture   |   |  |  |
|  |   |  |  |

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| Name  |                     | Product identifier   | %  |
|---|---------------------|--|--|
| potassium oleate                                |                     | (CAS No) 143-18-0  | 5 - 10   |
| Full text of H-phrases: see section 16          |                     |  |  |
| SECTION 4: First aid measures                   |                     |  |  |
| 4.1. Description of first aid measures          |                     |  |  |
| First-aid measures general                      |                     | ive anything by mouth to an un show the label where possible)            | conscious person. If you feel unwell, seek medical   |
| First-aid measures after inhalation             | : Allow vi          | ctim to breathe fresh air. Allow   | the victim to rest. If you feel unwell, seek medical advice.   |
| First-aid measures after skin contact           |                     |  | exposed skin area with mild soap and water, followed rash occurs: Get medical advice/attention.  |
| First-aid measures after eye contact            | do. Con<br>with wat | tinue rinsing. If eye irritation pe                                      | minutes. Remove contact lenses, if present and easy to rsists: Get medical advice/attention. Immediately rinse holding the eyelids wide open. Obtain medical attention |
| First-aid measures after ingestion              |                     | outh. Do NOT induce vomiting R or doctor/physician if you fee            | . Obtain emergency medical attention. Call a POISON I unwell.  |
| 4.2. Most important symptoms and effe           | cts, both ac        | ute and delayed  |  |
| Symptoms/injuries                               | : Not exp           | ected to present a significant h   | azard under anticipated conditions of normal use.  |
| Symptoms/injuries after inhalation              |                     | use respiratory irritation. May ca<br>ism and gastrointestinal tract.    | ause damaging effects to central nervous system,   |
| Symptoms/injuries after skin contact            | : Repeate           | ed exposure may cause skin dr  | yness or cracking.   |
| Symptoms/injuries after eye contact             |                     | eye irritation.  |  |
| Symptoms/injuries after ingestion               | : Irritation        | of the gastric/intestinal mucos  | a. nausea, vomiting.   |
| 4.3. Indication of any immediate medicate       | al attention a      | and special treatment needed   | l  |
| No additional information available             |                     |  |  |
| SECTION 5: Firefighting measures                |                     |  |  |
| 5.1. Extinguishing media                        |                     |  |  |
| Suitable extinguishing media                    | : Foam. D           | Dry powder. Carbon dioxide. W  | ater spray. Sand.  |
| Unsuitable extinguishing media                  | : Do not u          | use a heavy water stream.  |  |
| 5.2. Special hazards arising from the su        | ibstance or         | mixture  |  |
| No additional information available             |                     |  |  |
| 5.3. Advice for firefighters                    |                     |  |  |
| Firefighting instructions                       |                     | ter spray or fog for cooling expo<br>al fire. Prevent fire-fighting wate | osed containers. Exercise caution when fighting any<br>er from entering environment.   |
| Protection during firefighting                  | : Do not e          | enter fire area without proper pr  | rotective equipment, including respiratory protection.   |
| Other information                               | : Intense           | heat may cause container to be   | urst.  |
| SECTION 6: Accidental release mea               | sures               |  |  |
| 6.1. Personal precautions, protective e         |                     | d emergency procedures   |  |
| 6.1.1. For non-emergency personnel              |                     |  |  |
| Emergency procedures                            | : Evacuat           | e unnecessary personnel.   |  |
| 6.1.2. For emergency responders                 |                     |  |  |
| Protective equipment                            | · Fauin d           | eanup crew with proper protec  | tion   |
| Emergency procedures                            | : Ventilate         |  |  |
| 6.2. Environmental precautions                  |                     |  |  |
| Prevent entry to sewers and public waters. Noti | fv authorities      | if liquid enters sewers or public  | c waters.  |
| 6.3. Methods and material for containm          | ·                   |  | · · · · ·  |
| Methods for cleaning up                         |                     |  | s clay or diatomaceous earth as soon as possible.  |
| 6.4. Reference to other sections                | . 00ak up           | opino with mert sollus, such as  | o day or diatomaccous cartin as soon as possible.  |
|   |                     |  |  |

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| SECTION 7: Handling an   | storage   |  |  |
|--|---|--|--|
| 7.1. Precautions for safe  | andling   |  |  |
| Precautions for safe handling  | : Handle in accordance with good industrial hygiene and safety procedures. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. Avoid contact with skin and eyes. Prolonged or repeated contacts with the skin may cause dermatitis. Ensure adequate ventilation. Avoid breathing mist, spray. |  |  |
| Hygiene measures   | : Wash hands and other exposed areas with mild soap and water before eating, drinking or<br>smoking and when leaving work. Contaminated work clothing should not be allowed out of the<br>workplace. Wash contaminated clothing before reuse.   |  |  |
| 7.2. Conditions for safe s   | orage, including any incompatibilities  |  |  |
| Storage conditions   | : Do not freeze. The liquid may freeze if stored outside. Keep container closed when not in use.<br>Store in a well-ventilated place. Keep cool.  |  |  |
| Incompatible products  | : Oxidizing agent. Strong bases. Strong acids.  |  |  |
| SECTION 8: Exposure c  | ntrols/personal protection  |  |  |
| 8.1. Control parameters  |   |  |  |
| IRMCO INTERNATIONAL CO   | POUND #2 ®  |  |  |
| NIOSH  | NIOSH REL (TWA) (mg/m <sup>3</sup> ) Not Applicable   |  |  |
|  |   |  |  |
| 3.2. Exposure controls   |   |  |  |
| Appropriate engineering controls : Ensure good ventilation of the work station to maintain airborne concentrations below exposure limits identified in Section 8.1. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |   |  |  |
| Personal protective equipment  | : Avoid all unnecessary exposure. Gloves. Safety glasses.   |  |  |
|  |   |  |  |
| Hand protection  | : Wear chemically resistant gloves.   |  |  |
| Eye protection   | : Chemical goggles or safety glasses. Contact lenses should not be worn.  |  |  |
| Skin and body protection   | : Wear suitable protective clothing.  |  |  |
| Respiratory protection   | : In case of inadequate ventilation wear respiratory protection.  |  |  |
| Environmental exposure control   | : Avoid release to the environment.   |  |  |
| Other information  | Do not handle until all safety precautions have been read and understood. Do not eat, drink or<br>smoke during use.   |  |  |
| SECTION 9: Physical an   | chemical properties   |  |  |
|  | hysical and chemical properties   |  |  |
| Physical state   | : Liquid  |  |  |
| Appearance   | : Paste.  |  |  |
| Color  | : light brown   |  |  |
| Odor   | : characteristic  |  |  |

| Odor  | : characteristic    |
|---|---------------------|
| Odor threshold                              | : No data available |
| pH  | : 8 - 9 1% solution |
| Melting point                               | : No data available |
| Freezing point                              | : No data available |
| Boiling point                               | : > 347 °F          |
| Flash point                                 | : > 200 °F          |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas)                   | : No data available |
| Explosion limits                            | : No data available |
| Explosive properties                        | : No data available |
| Oxidizing properties                        | : No data available |
| Vapor pressure                              | : No data available |
| Relative density                            | : 1.26              |

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| Relative vapor density at 20 °C | : No data available        |
|---------------------------------|----------------------------|
| Specific gravity / density      | : 10.5 lb/gal              |
| Solubility                      | : Poorly soluble in water. |
| Log Pow                         | : No data available        |
| Auto-ignition temperature       | : No data available        |
| Decomposition temperature       | : No data available        |
| Viscosity                       | : No data available        |
| Viscosity, kinematic            | : 750 cP @ 200 °F          |
| Viscosity, dynamic              | : No data available        |
| 9.2. Other information          |                            |
| VOC content                     | : Not Applicable           |

| SECT   | ION 10: Stability and reactivity            |  |  |
|--|---|--|--|
| 10.1.  | Reactivity                                  |  |  |
| No addi  | tional information available                |  |  |
| 10.2.  | Chemical stability                          |  |  |
| Stable u   | inder normal conditions. No polymerization. |  |  |
| 10.3.  | Possibility of hazardous reactions          |  |  |
| No addi  | tional information available                |  |  |
| 10.4.  | Conditions to avoid                         |  |  |
| No flames, no sparks. Eliminate all sources of ignition. Extremely high or low temperatures. |   |  |  |
| 10.5.  | Incompatible materials                      |  |  |
| Strong a   | acids. Strong bases. Oxidizing agent.       |  |  |

### 10.6. Hazardous decomposition products

Under fire conditions, fumes may contain the original material in addition to unidentified toxic and/or irritating compounds. Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| Likely routes of exposure                          | : Dermal; Inhalation   |  |
|--|--|--|
| Acute toxicity                                     | : Not classified   |  |
| potassium oleate (143-18-0)                        |  |  |
| LD50 oral rat                                      | > 5000 mg/kg (Rat)   |  |
| LD50 dermal rat                                    | > 2000 mg/kg (Rat)   |  |
| Skin corrosion/irritation                          | : Causes skin irritation.  |  |
|  | pH: 8 - 9 1% solution  |  |
| Serious eye damage/irritation                      | : Causes eye irritation.   |  |
|  | pH: 8 - 9 1% solution  |  |
| Respiratory or skin sensitization                  | Not classified   |  |
| Germ cell mutagenicity                             | : Not classified   |  |
| Carcinogenicity                                    | : Not classified   |  |
| Reproductive toxicity                              | : Not classified   |  |
| Specific target organ toxicity (single exposure)   | : Not classified   |  |
| Specific target organ toxicity (repeated exposure) | : Not classified   |  |
| Aspiration hazard                                  | : Not classified   |  |
| Symptoms/injuries after inhalation                 | : May cause respiratory irritation.<br>metabolism and gastrointestinal | May cause damaging effects to central nervous system, tract. |
| Symptoms/injuries after skin contact               | : Repeated exposure may cause s  | skin dryness or cracking.                                    |
| Symptoms/injuries after eye contact                | : Causes eye irritation.   |  |
| 07/04/0045   |  | 000 10 054   |

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Symptoms/injuries after ingestion

: Irritation of the gastric/intestinal mucosa. nausea, vomiting.

| Symptoms/injuries after ingestion  | : Irritation of the gastric/intestinal mucosa. nausea, vomiting.  |
|--|---|
| SECTION 12: Ecological information   | bn  |
| 2.1. Toxicity  |   |
| lo additional information available  |   |
| 2.2. Persistence and degradability   |   |
| IRMCO INTERNATIONAL COMPOUND #2  | R   |
| Persistence and degradability  | Not established.  |
| potassium oleate (143-18-0)  |   |
| Persistence and degradability  | Biodegradability in water: no data available.   |
| 2.3. Bioaccumulative potential   |   |
| IRMCO INTERNATIONAL COMPOUND #2  | R   |
| Bioaccumulative potential  | Not established.  |
| potassium oleate (143-18-0)  |   |
| Bioaccumulative potential  | Not bioaccumulative.  |
| 2.4. Mobility in soil  |   |
| lo additional information available  |   |
|  |   |
| 2.5. Other adverse effects   |   |
| ffect on the global warming  | : No known ecological damage caused by this product.  |
|  |   |
| ther information   | : Avoid release to the environment.   |
| ECTION 13: Disposal considerati  | ons   |
| 3.1. Waste treatment methods   |   |
| aste disposal recommendations  | : Dispose in a safe manner in accordance with local/national regulations. Do not re-use empty containers. |
| dditional information  | : Non hazardous waste per Resource Conservation and Recovery Act (RCRA).                                  |
| cology - waste materials   | : Avoid release to the environment.   |
| ECTION 14: Transport informatio  | n   |
| epartment of Transportation (DOT)  |   |
| accordance with DOT  |   |
| ot regulated for transport   |   |
| DG   |   |
| o additional information available   |   |
|  |   |
| ransport by sea  |   |
| o additional information available   |   |
| ir transport   |   |
| lo additional information available  |   |
| ECTION 15: Regulatory informati  | on  |
| 5.1. US Federal regulations  |   |
| IRMCO INTERNATIONAL COMPOUND #2  | ®   |
| Not subject to reporting requirements of the L   |   |
| SARA Section 311/312 Hazard Classes  | Immediate (acute) health hazard<br>Delayed (chronic) health hazard  |
| All components of this product are listed, or e<br>Substances Control Act (TSCA) inventory | excluded from listing, on the United States Environmental Protection Agency Toxic                         |
|  | oxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40        |
|  | uirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986         |

and 40 CFR Part 372.

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#### 15.2. International regulations

#### **CANADA**

No additional information available

### **EU-Regulations**

No additional information available

#### National regulations

### **IRMCO INTERNATIONAL COMPOUND #2** ®

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

All the constituents of this preparation are registered in the EINECS inventory or in the ELINCS list

All components of this product are listed, or excluded from listing, on the AICS (Australian Inventory of Chemical Substances)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

| SECTION 16: Other information |  |
|-------------------------------|--|
| Revision date                 | : 07/14/2015   |
| Data sources                  | <ul> <li>This material is classified as hazardous under OSHA regulations. This document has been<br/>prepared in accordance with the SDS requirements of the OSHA Hazard Communication<br/>Standard 29 CFR 1910.1200.</li> </ul>                                 |
| Other information             | : IRMCO products are mixtures protected as trade secrets according to 29 CFR 1910.1200(i).<br>As per GHS regulation, ingredients that contribute to the classification and exceed cut-off<br>values are listed in section 3. For more information contact IRMCO. |
| Full text of H-phrases:       |  |

|   | Eye Irrit. 2B |   | Serious eye damage/eye irritation Category 2B  |
|---|---------------|---|--|
|   | Skin Irrit. 2 |   | Skin corrosion/irritation Category 2   |
|   | H315          |   | Causes skin irritation   |
|   | H320          |   | Causes eye irritation  |
| incapacitation or possib  |               | i   | 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. |
| NFPA fire hazard : 1 - Must be pr   |               | : 1   | 1 - Must be preheated before ignition can occur.   |
|   |               |   | 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.   |
| HMIS I  | II Rating     |   |  |
| Health  |               | :   | 2 Moderate Hazard - Temporary or minor injury may occur  |
| Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Include solids and semi solids having a flash point above 200 F. (Class IIIB)         |               | 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)            |  |
| Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and react with water, polymerize, decompose, condense, or self-react. Non-Explosives. |               | 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives. |  |
| Person  | al Protection | :   | В  |
|   |               |   | B - Safety glasses, Gloves   |
|   |               |   |  |

### IRMCO SDS US

We believe all the information contained in this document to be reliable, though the accuracy or completeness is not guaranteed. IRMCO FLUIDS®, IRMCO GEL® and IRMCO EXTREME® products have been used extensively throughout the world in a variety of manufacturing and production applications. It is the responsibility of users of IRMCO products to meet the component surface quality, process compatibility or cleanliness requirements of their customers. Given the complexity and variety of users applications and processes, IRMCO cannot predict all user conditions and results. If surface quality, process compatibility or cleanliness is a user concern, then IRMCO recommends removing/cleaning off the IRMCO product film from the components before final assembly and distribution of such components. User assumes all risk and liabilities associated with the products used.