



# MATERIAL SAFETY DATA SHEET

## GENERAL INFORMATION

|                                                                                                                                 |                               |                                                  |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------|
| PRODUCT NAME OR NUMBER (as it appears on label)<br><b>Electronic Switch and Contact Cleaner</b>                                 |                               | CATALOG NUMBER<br><b>40-610</b>                  |
| MANUFACTURER'S NAME<br><b>IDEAL INDUSTRIES, INC.</b>                                                                            |                               | EMERGENCY TELEPHONE NO.<br><b>(815) 895-5181</b> |
| ADDRESS (Number, Street, City, State, Zip Code)<br><b>Becker Place, Sycamore, IL 60178</b>                                      |                               |                                                  |
| HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZARD CLASS, HAZARD CLASS, HAZARD ID NO. (49 CFR 172.101)<br><b>None</b> |                               |                                                  |
| CHEMICAL DESCRIPTION<br><b>Hydrocarbon Blend</b>                                                                                | FORMULA<br><b>Proprietary</b> |                                                  |

### SECTION I - INGREDIENTS

| CAS REGISTRY NO. | %W   | CHEMICAL NAME(S)* | Listed as a carcinogen in NTP, IARC or OSHA 1910(z) (specify) |
|------------------|------|-------------------|---------------------------------------------------------------|
| 64742-89-8       | <10% | Heptane           | No                                                            |
| 109-66-0         | <30% | n-Pentane         | No                                                            |
| 107-83-5         | <30% | Isohexane         | No                                                            |
| 110-82-7         | <20% | Cyclohexane       | No                                                            |
| 811-97-2         | <30% | Tetrafluoroethane | No                                                            |

### SECTION II - PHYSICAL DATA

|                                                                 |                                                               |                                        |
|-----------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------|
| BOILING POINT<br>-40°F -408 °C                                  | SPECIFIC GRAVITY (H <sub>2</sub> O=1)<br>0.7605               | PERCENT VOLATILE BY VOLUME (%)<br>100% |
| SOLUBILITY IN WATER<br>Negligible                               | pH =<br>Not Applicable                                        | PERCENT SOLID BY WEIGHT (%)<br>0%      |
| APPEARANCE AND ODOR<br>Yellow liquid foam, slight perfume odor. | IS MATERIAL: <u>LIQUID</u> SOLID GEL<br>FOAM GAS PASTE POWDER |                                        |

### SECTION III - FIRE AND EXPLOSION HAZARD DATA

|                      |                      |                                            |
|----------------------|----------------------|--------------------------------------------|
| FLASH POINT<br>-40°F | method used<br>C.O.C | FLAMMABLE LIMITS<br>33.48 kJ/g established |
| EXTINGUISHING MEDIA  |                      |                                            |

CO<sub>2</sub>, Foam, Dry Chem.

SPECIAL FIRE FIGHTING PROCEDURES

Self-contained respiratory protection should be provided for firefighters.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Risk of ignition. Stable under normal conditions

\* None of the chemical raw materials contained in this formulation are considered hazardous under the Federal Hazards Communication Standard 29 C. F. R 1910.1200

**SECTION IV - HEALTH HAZARD INFORMATION**

|                                                                                                                                                                                                                                     |                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| EFFECTS OF OVEREXPOSURE - Conditions to Avoid<br>Eyes - burning & irritation, Skin - mild irritation, Inhalation – intentional misuse can be harmful or fatal, Ingestion – gastrointestinal irritation, nausea, vomiting, diarrhea. |                                                                                                 |
| THRESHOLD LIMIT VALUE                                                                                                                                                                                                               | No established                                                                                  |
| PRIMARY ROUTES OF ENTRY                                                                                                                                                                                                             | <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Skin Contact |
| EMERGENCY FIRST AID PROCEDURES                                                                                                                                                                                                      |                                                                                                 |
| SKIN CONTACT:                                                                                                                                                                                                                       | Wash area thoroughly with soap & water                                                          |
| EYE CONTACT:                                                                                                                                                                                                                        | BREATHING:                                                                                      |
| Flush with large amounts of water for 15 minutes; get medical attention                                                                                                                                                             |                                                                                                 |
| INGESTION:                                                                                                                                                                                                                          | DO NOT induce vomiting. Call a physician immediately.                                           |

**SECTION V - REACTIVITY DATA**

|                                                                 |                |   |                                                          |
|-----------------------------------------------------------------|----------------|---|----------------------------------------------------------|
| STABILITY                                                       | UNSTABLE       |   | CONDITIONS TO AVOID                                      |
|                                                                 | STABLE         | X | Avoid prolonged storage at temperatures exceeding 120°F. |
| INCOMPATIBILITY (materials to avoid)<br>Avoid strong oxidizers. |                |   |                                                          |
| HAZARDOUS DECOMPOSITION PRODUCTS:<br>Oxides of Carbon           |                |   |                                                          |
| HAZARDOUS<br>POLYMERIZATION                                     | MAY OCCUR      |   | CONDITIONS TO AVOID                                      |
|                                                                 | WILL NOT OCCUR | X | None                                                     |

**SECTION VI - SPILL AND LEAK PROCEDURES**

|                                                                                                                            |     |
|----------------------------------------------------------------------------------------------------------------------------|-----|
| STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED<br>Remove sources of ignition, stop leak if possible, ventilate area. |     |
| WASTE DISPOSAL METHOD<br>Wipe up with absorbent material in accordance with local, state and federal guidelines            |     |
| CERCLA (Superfund) REPORTABLE QUANTITY (in lbs)<br>None Required                                                           |     |
| RCRA HAZARDOUS WASTE NO. (40CFR 261.33)<br>None Required                                                                   |     |
| VOLATILE ORGANIC COMPOUND (VOC) (as packaged, minus water)<br>100%                                                         |     |
| <sup>3</sup> Theoretical _____ lb/gal                                                                                      | N/A |
| <sup>3</sup> Analytical _____ lb/gal                                                                                       | N/A |

**SECTION VII - PERSONAL PROTECTION INFORMATION**

|                                                                                                    |                                     |                                                                    |         |
|----------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------|---------|
| RESPIRATORY PROTECTION (specify type)<br>None normally required.                                   |                                     |                                                                    |         |
| VENTILATION                                                                                        | LOCAL EXHAUST (Specify Rate)        | See below                                                          | SPECIAL |
|                                                                                                    | MECHANICAL (General) (Specify Rate) | Recommended in closed areas                                        | OTHER   |
| PROTECTIVE GLOVES (specify type)<br>Neoprene                                                       |                                     | EYE PROTECTION (specify type)<br>Safety glasses or splash goggles. |         |
| OTHER PROTECTIVE EQUIPMENT<br>Provide local exhaust to insure TLV and LEL limits are not exceeded. |                                     |                                                                    |         |

**SECTION VIII - SPECIAL PRECAUTIONS**

|                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|
| PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING<br>Use product in areas with good ventilation. Do not pierce or burn, even after use. |
| OTHER PRECAUTIONS                                                                                                                     |

**SECTION IX - ADDITIONAL INFORMATION**

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N/A = Not Applicable, N.E. = None Established

**THIS MATERIAL SAFETY DATA SHEET PREPARED BY:**

|       |                                |                                                                                                   |
|-------|--------------------------------|---------------------------------------------------------------------------------------------------|
| NAME  | James R. MacMurdo              | SIGNATURE<br> |
| TITLE | Mgr, Corporate Quality Systems |                                                                                                   |
| DATE  | 4/18/2011                      |                                                                                                   |