



Safety Data Sheet

SPL-88 - Handler Mfg. Co., Inc.

Section 1. Identification

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|------------------------------|--|--|----------------|
| Product Identifier | SPL-88 - Handler Mfg. Co., Inc. | | |
| Synonyms | N/A | | |
| Manufacturer Stock Numbers | 1304-06 | | |
| Recommended use | SPL-88 is chemically bonded in a patented process to produce an extremely effective dry spray that is ideal for separating, protecting and/or lubricating. | | |
| Uses advised against | Avoid over spraying - a light coating insures optimum results. | | |
| Manufacturer Contact Address | Shield Packaging Co., Inc. 50 Oxford Ave. Dudley, MA, 01570 | | |
| | Phone | Emergency Phone | Fax |
| | (508) 949-0900 | (800) 424-9300 CHEMTREC CHEMTREC 24 HR. Emergency Telephone Number | (508) 943-1473 |
| | Email | rfellows@shieldpackaging.com | |

Section 2. Hazards Identification

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|----------------|---|
| Classification | EYE DAMAGE/IRRITATION - Category 2B SENSITIZATION - RESPIRATORY - Category 1 SKIN CORROSION/IRRITATION - Category 3 SPECIFIC TARGET ORGAN TOXICITY (Repeated - Category 2 SPECIFIC TARGET ORGAN TOXICITY (Single E - Category 2 |
| Signal Word | Danger |
| Pictogram | |



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| Hazard Statements | <p>Causes eye irritation</p> <p>Causes mild skin irritation</p> <p>May cause allergy or asthma symptoms or breathing difficulties if inhaled</p> <p>May cause damage to organs (or state all organs affected if known) (state route of exposure if no other routes of exposure cause the hazard)</p> <p>May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if no other routes of exposure cause the hazard)</p> |
| Precautionary Statements | |
| Response | <p>Get medical advice/attention if you feel unwell.</p> <p>If experiencing respiratory symptoms: Call a poison center/doctor.</p> <p>If exposed or concerned: Call a poison center/doctor.</p> <p>If eye irritation persists: Get medical advice/attention.</p> <p>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.</p> <p>If skin irritation occurs: Get medical advice/attention.</p> |
| Prevention | <p>[In case of inadequate ventilation] wear respiratory protection.</p> <p>Avoid breathing dust, fume, gas, mist, vapors and/or spray.</p> <p>Do not breathe dust, fume, gas, mist, vapors and/or spray.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Wash hands before breaks and immediately after handling the product.</p> |
| Storage | Store locked up. |
| Disposal | Dispose of contents/container to licensed waste disposal contractor. |
| Ingredients of unknown toxicity | 0% |
| Hazards not Otherwise Classified | |
| Color: | Clear |
| Form: | Aerosol spray |
| Odor: | Irritating odor at high concentrations. |
| Potential Health Effects: | |
| General: | <p>May irritate skin, eyes, nose and throat. Giddiness/dizziness/loss of coordination.</p> <p>May produce irregular heart beat (Arrhythmia) at high vapor concentrations.</p> <p>Irritation to the upper respiratory tract.</p> |
| Inhalation: | <p>(Acute and Chronic): Overexposure may cause irritation to the upper respiratory tract. Giddiness/dizziness/loss of coordination with excessive vapor concentration.</p> <p>May produce irregular heart beat (Arrhythmia) at high vapor concentrations.</p> <p>Chronic overexposure may cause deterioration, dermatitis, and have liver and kidney effects.</p> |
| Skin: | May irritate skin. |
| Eye: | May irritate eyes, nose and throat. |
| Ingestion: | Not likely to be ingested in acutely toxic quantities. |
| Routes of Exposure: | Skin contact. Inhalation. Ingestion (Not likely to be ingested in acutely toxic quantities). |
| Target Organs: | Central nervous system and/or Respiratory system. |
| Medical Conditions Aggravated by Exposure: | May aggravate upper respiratory or dermal dysfunction in people with pre-existing conditions. May increase myocardial irritation in people with pre-existing condition. |
| OSHA Regulatory Status: | Components of this product are considered hazardous per the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| Environment: | The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have |

a harmful or damaging effect on the environment.

HEALTH HAZARD NOTE: This product contains a material that when burned produces a vapor capable of inducing flu like symptoms (polymer fume fever). The onset of symptoms occur within 24 hours of exposure and may last for two to three days. Avoid contamination of tobacco product.

INHALATION HAZARD NOTE: The willful concentration and inhalation of vapors from this product are hazardous and may be fatal.

*Components marked by an asterix are present above the De minimus cut of level and subject to the reporting requirements is Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Section 3. Ingredients

| CAS | Ingredient Name | Weight % |
|----------|---------------------------|-----------|
| 811-97-2 | 1,1,1,2-Tetrafluoroethane | 35% - 45% |
| 79-01-6 | Trichloroethylene* | 50% - 60% |

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

General: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Inhalation: Remove affected person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

Skin Contact: Wash off with mild soap and water. If irritation develops or persists consult physician.

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for treatment advice.

Ingestion: Not likely to be ingested in quantities. However, if ingestion should occur, do not induce vomiting. Seek immediate medical attention.

Treatment: Treatment based on judgment of physician in response to reactions of the patient.

Notes to the Physician: Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary. No specific antidote. Supportive care.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media Pertinent to the cause of the fire. Product is not expected to support combustion.

Unsuitable Extinguishing Media N/A

Special Fire Fighting Procedures: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/OSHA (approved or equivalent) and full protective gear. Self-contained respiratory protection should be provided for firemen fighting in buildings or confined areas. Keep cans cool to prevent possible bursting.

Unusual Fire & Explosion Hazards: Toxic vapors and mist may be formed from incomplete combustion or thermal deterioration (at temperatures expected during fires). (See Section 10).

Section 6. Accidental Release Measures

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| Personal Precautions: | Wear appropriate personal protection equipment. For personal protection see section 8. |
| Evacuation Procedures: | Evacuate the area promptly. Keep upwind of the spilled material and isolate exposure. |
| Spill Cleanup Methods: | SMALL SPILL: Mop or wipe up. Remove to out of doors. LARGE SPILLS: Ventilate area. Contain liquid and transfer to steel drums. Cap tightly. |
| Notification Procedures: | Stop leak if possible. Eliminate all sources of ignition. Prevent vapor from entering sewers, basements or confined areas. Take note of any information in Section 8 on suitable personal protective equipment. |

Section 7. Handling and Storage

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| Handling: | Keep away from heat and ignition sources - No smoking. Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with skin, eyes and clothing. Avoid breathing vapors of this product. Local exhaust should be used when handling this product in enclosed spaces. Employee education & training is essential. For professional use only. Do not contaminate water, feed or food by storage, handling or disposal. Read and observe all precautions on the label. Do not expose containers to heat, flame, sparks or other ignition sources, they may explode and cause injury or death. Empty containers may retain product residues and may be dangerous. |
| Storage: | Store in a cool, dry well ventilated area away from heat and ignition sources. Keep in the original container tightly closed. Keep away from incompatible materials, oxidizers, strong base and strong acids. Empty containers may retain product residues. KEEP OUT OF THE REACH OF CHILDREN |

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

| Ingredient Name | ACGIH TLV | OSHA PEL | STEL |
|---------------------------|-----------------|-----------------|---|
| 1,1,1,2-Tetrafluoroethane | Not Established | Not Established | AEL *** 1000ppm 8&12 Hr. TWA, WEEL (AIHA) 1000ppm 8 Hr. TWA |
| Trichloroethylene* | 50ppm | 50ppm | 200ppm (STEL) OSHA, 100ppm (STEL) ACGIH |

Personal Protective Equipment

Protective Measures:

Room ventilation is generally adequate with expected normal use. Use local exhaust as necessary to keep vapor concentration below the TLV. Use mechanical ventilation as necessary in poorly ventilated or confined and/or depressed areas (pits/sumps) where vapors have a tendency to accumulate. Employee education & training is essential. FOR PROFESSIONAL USE ONLY.

Respiratory Protection:

Under normal conditions, respirator is not normally required.

Skin and Body Protection:

Use disposable gloves where repeated or prolonged contact might occur.

Hygiene Measures:

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes, skin, and face. Do not eat, drink or smoke when using this product. Do not spray onto skin or into face or eyes. Avoid repeated or prolonged contact. To prevent accidental spraying keep protective cap in place when not in use. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Contaminated work clothing should not be allowed out of the workplace.

***AEL is the material manufacturers Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits lower than the AEL are in effect, such limits shall take precedence.

Section 9. Physical and Chemical Properties

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|---------------------------------------|-----------------------|
| Physical State | Aerosol spray |
| Color | Clear |
| Odor | Irritating odor |
| Odor Threshold | N/A |
| Solubility | Negligible |
| Partition coefficient Water/n-octanol | N/A |
| VOC% | N/A |
| Viscosity | N/A |
| Specific Gravity | >1 Heavier |
| Density lbs/Gal | N/A |
| Pounds per Cubic Foot | N/A |
| Flash Point | N/A |
| FP Method | N/A |
| Ph | N/A |
| Melting Point | N/A |
| Boiling Point | N/A |
| Boiling Range | N/A |
| LEL | N/A |
| UEL | N/A |
| Evaporation Rate | Faster |
| Flammability | N/A |
| Decomposition Temperature | N/A |
| Auto-ignition Temperature | N/A |
| Vapor Pressure | Not > 100psig @70F |
| Vapor Density | > 1 (Heavier) |

Physical and Chemical
Properties continued:

Volatile by Volume: Approx 95+%

Section 10. Stability and Reactivity

Stability: This is a stable material.

Possibility of Hazardous
Reactions: Will not occur.

Conditions to Avoid: Excessive storage temperatures and contact with extremely hot surfaces (glowing metallic surfaces etc.) Welding arcs and gas welding, gas joint sweating flames.

Incompatible Materials: Strong oxidizers and bases (household bleaches and oven cleaners.) Storing in, or prolonged contact with aluminum, beryllium and/or their alloys.

Hazardous Decomposition
Products: Thermal: Carbon monoxide, carbon dioxide, carbonyl halide (Phosgene) and other unidentified organic vapors and mists.

Section 11. Toxicological Information

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| Acute Toxicity (Oral): | Not determined |
| Acute Toxicity (Dermal): | Not determined |
| Inhalation: | Specific target organ toxicity (repeated exposure): STOT Repeated exposure 2 |
| Ingestion: | Not determined |
| Skin Corrosion/Irritation: | Skin Corrosion/Irritation Category 3 |
| Serious Eye Damage/Eye Irritation | Eye Damage/Irritation Category 2B |
| Respiratory Sensitizer/Skin Sensitizer: | Skin Sensitization Category 1 |
| Carcinogenicity: | Not classified. None of the ingredients present in this product at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens. |
| Mutagenesis: | Not determined |
| Reproductive Toxicity: | Not determined |
| Other Effects: | Specific target organ toxicity (single exposure): STOT Single Exposure 2 |

Section 12. Ecological Information

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| Ecotoxicity: | This product may be toxic to fish or other aquatic organisms. Do NOT discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. Contact your State Water Board or Regional Office of the EPA for guidance. |
| Acute Toxicity (Fish): | N/A |
| Chronic Toxicity (Fish): | N/A |
| Acute Toxicity (Aquatic Invertebrates): | N/A |
| Chronic Toxicity (Aquatic Invertebrates): | N/A |
| Acute Toxicity (Aquatic Plants): | N/A |
| Persistence and Degradability: | N/A |
| Bioaccumulative Potential: | N/A |
| Mobility: | N/A |

Section 13. Disposal

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| Disposal Method: | All wastes must be handled in accordance with local, state and federal regulations. See section 7 for Handling Procedures. See section 8 for Personal Protective Equipment recommendations. |
| Component Waste Numbers: | No EPA Waste Numbers are applicable for this product's components. |

Section 14. Transport Information

UN Number 1950
UN Proper Shipping Name LIMITED QUANTITY
DOT Classification LTD QTY
Packing Group LTD QTY
IMDG - INTERNATIONAL
MARITIME DANGEROUS
GOODS:
UN Number: 1950
UN Proper Shipping Name: AEROSOLS, FLAMMABLE
Transport Hazard Class(es): 2.1 (6.1)
Subsidiary Risk Label: N/A
Packing Group: N/A
Label(s): LIMITED QUANTITY
Marine Pollutant: N/A
EmS No.: N/A
IATA - INTERNATIONAL AIR
TRANSPORT
ASSOCIATION:
UN Number: 1950
Proper Shipping Name: AEROSOLS, FLAMMABLE
Transport Hazard Class(es): 2.1 (6.1)
Subsidiary Risk Label: N/A
Packing Group: N/A
Label(s): LIMITED QUANTITY

Section 15. Regulatory Information

INVENTORY STATUS

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| Australia AICS: | On or in compliance with the inventory |
| Canada DSL Inventory List: | On or in compliance with the inventory |
| EU EINECS List: | On or in compliance with the inventory |
| EU ELINCS List: | On or in compliance with the inventory |
| Japan (ENCS) List: | Not in compliance with the inventory |
| EU No Longer Polymers List: | On or in compliance with the inventory |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory |
| Korea Existing Chemicals Inv. (KECI): | On or in compliance with the inventory |
| Canada NDSL Inventory: | Not in compliance with the inventory |
| Philippines PICCS: | On or in compliance with the inventory |
| US TSCA Inventory: | On or in compliance with the inventory |
| New Zealand Inventory of Chemicals: | On or in compliance with the inventory |
| Switzerland Consolidated Inventory: | Not in compliance with the inventory |
| Japan ISHL Listing: | Not in compliance with the inventory |
| Japan Pharmacopoeia Listing: | Not in compliance with the inventory |

US REGULATIONS

CERCLA Hazardous Substance List (40 CFR 302.4): This product and/or its constituents listed herein are on the EPA TSCA in inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other federal, state or local regulations. Consult those regulations applicable to your operation.

79-01-6 Trichloroethylene - Listed

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None listed

SARA TITLE III

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): There are no SARA Title III Section 302 Extremely Hazardous Substances present in this product (40 CFR 355, Appendix A).

Section 311/312 (40 CFR 370): (X) Acute (Immediate)

(X) Chronic (Delayed) (X) Fire (X) Reactive () Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372): This product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 49 CFR 372.

79-01-6 Trichloroethylene - Listed

STATE REGULATIONS

California Safe Drinking Water & Toxic Enforcement Act of 1986 (Proposition 65): Proposition 65 requires businesses to notify Californians about significant amounts of chemicals in the products they purchase, in their homes or workplaces, or that released into the environment. By providing this information, Proposition 65 enables Californians to make informed decisions about protecting themselves

from exposure to these chemicals. Proposition 65 also prohibits Californians businesses from knowingly discharging significant amounts of listed chemicals into sources of drinking water.

79-01-6 Trichloroethylene - Listed

Massachusetts Right-To-Know List:

79-01-6 Trichloroethylene - Listed

New Jersey Right-To-Know List

79-01-6 Trichloroethylene - Listed

Pennsylvania Right-To-Know List

79-01-6 Trichloroethylene - Listed

Section 16. Other Information

Revision Date

5/8/2015

HMIS (Hazardous Materials Identification System):

HEALTH - 2, FLAMMABILITY - 0, PHYSICAL HAZARD - 1, PERSONAL PROTECTION - *

* See Section 8 (Exposure Controls/Personal Protection).

Disclaimer:

The information contained in this Safety Data Sheet is furnished without warranty of any kind, expressed or implied. Information in this Data Sheet has been assembled by the manufacturer based on its own studies and on the work of others and is believed to be correct as of the date issued. However, no warranty of any kind is expressed or implied as to the accuracy, completeness, or adequacy of the information obtained herein. The Manufacturer shall not be liable, regardless of fault, to the vendee, the vendee's employees, or anyone for any direct, special or consequential damages arising out of, or in connection with, the accuracy, completeness, or adequacy of the information obtained herein. It is intended to assist in the normal safe usage of the product. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.