

# MATERIAL SAFETY DATA SHEET

110-1

SECTION I  
PRODUCT IDENTIFICATION

EMERGENCY TELEPHONE NO.  
(216) 292-7400  
INFORMATION TELEPHONE NO.  
(800) 777-2966

DATE OF PREPARATION  
1 - Jul - 94

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Lacquers

LACQUER/ISD



Distributed By -  
**FREEMAN Mfg. & Supply Co.**  
1101 MOORE ROAD  
AVON, OHIO 44011-1011 (800) 321-8511

SPRAYON PRODUCTS

| SECTION II<br>CAS No. HAZARDOUS INGREDIENT<br>(Percent by weight) | ACGIH TLV<br><STEL> | OSHA PEL<br><STEL> | Units                             | Vapor Pressure<br>(mm Hg) | 01920 | 01923 | 01926  | 01927                 | 01929 | 01932 | 01933                  | 01935 | 01937                  | 01938  | 01941         | 01944        | 01947    | 01951 |
|---|---------------------|--------------------|-----------------------------------|---------------------------|-------|-------|--------|-----------------------|-------|-------|------------------------|-------|------------------------|--------|---------------|--------------|----------|-------|
|   |                     |                    |                                   |                           | Black | White | Yellow | Federal Hwy<br>Yellow | Blue  | Red   | Machinery<br>Dark Gray | Gray  | Machinery<br>Blue Gray | Orange | Dark<br>Green | Fal<br>Black | Aluminum | Clear |
| 74-98-6 Propane   |                     |                    | 1000 PPM                          | 760.0                     | 15    | 15    | 11     | 11                    | 11    | 15    | 11                     | 16    | 16                     | 11     | 11            | 15           | 13       | 12    |
| 75-28-5 2-Methylpropane   |                     |                    | Not Established                   | 760.0                     |       |       | 11     | 11                    | 11    |       | 11                     |       |                        | 11     | 11            |              | 17       | 13    |
| 64742-89-8 V. M. & P. Naphtha                                     | 300                 | 300                | PPM                               | 12.0                      | 3     | 6     | 1      | 12                    | 2     | 2     | 2                      | 2     | 2                      |        |               |              |          | 12    |
| 108-88-3 Toluene  | 50                  | 100                | PPM                               | 22.0                      | 3     | 3     | 6      | 12                    | 6     | 2     | 10                     | 8     | 9                      | 12     | 14            |              |          | 12    |
| 100-41-4 Ethylbenzene   | 100                 | 100                | PPM                               | 7.1                       | 1     | 2     |        |                       | 2     | 1     | 2                      |       | 2                      |        |               |              |          | 2     |
| 1330-20-7 Xylene  | 100                 | 100                | PPM                               | 5.9                       | 1     | 2     |        |                       | 2     | 1     | 2                      |       | 2                      |        |               |              |          | 8     |
| 67-56-1 Methanol  | 200                 | 200                | PPM (Skin)                        | 92.0                      | 1     |       |        |                       |       | 1     |                        |       |                        |        |               |              |          |       |
| 64-17-5 Ethanol   | 1000                | 1000               | PPM                               | 44.9                      |       | 2     |        |                       |       | 1     |                        |       |                        |        |               |              |          |       |
| 67-83-0 2-Propanol  | 400                 | 400                | PPM                               | 33.0                      | 1     |       | 1      |                       | 2     | 1     | 2                      | 1     | 2                      |        |               |              |          |       |
| 71-36-3 1-Butanol   | <500>               | <500>              | PPM                               | 5.5                       |       |       |        | 2                     |       |       |                        |       |                        |        |               | 2            |          | 2     |
| 78-83-1 2-Methyl-1-propanol                                       | 50                  | 50                 | PPM                               | 8.7                       | 2     | 3     |        |                       |       | 1     |                        |       |                        |        |               |              |          | 4     |
| 111-76-2 2-Butoxyethanol  | 25                  | 25                 | PPM (Skin)                        | 0.6                       |       | 1     |        |                       |       |       |                        |       |                        |        |               |              |          |       |
| 67-64-1 Acetone   | 750                 | 750                | PPM                               | 180.0                     | 49    | 43    | 41     | 37                    | 42    | 47    | 42                     | 48    | 49                     | 36     | 37            | 47           |          | 32    |
| 78-93-3 Methyl Ethyl Ketone                                       | <1000>              | <1000>             | PPM                               | 70.0                      | 1     | 2     | 2      | 2                     | 1     |       |                        | 2     | 1                      | 2      | 2             | 2            |          | 8     |
| 108-10-1 Methyl Isobutyl Ketone                                   | 50                  | 50                 | PPM                               | 18.0                      |       |       | 5      | 5                     |       |       |                        |       |                        | 5      | 5             |              |          |       |
| 108-21-4 Isopropyl Acetate  | 250                 | 250                | PPM                               | 47.5                      |       |       | 4      |                       | 5     |       | 5                      | 3     | 4                      |        |               |              |          |       |
| 763-69-9 Ethyl 3-Ethoxypropionate                                 | <310>               | <310>              | PPM                               | 47.5                      |       |       |        |                       |       |       |                        |       |                        |        |               |              |          |       |
| 123-86-4 n-Butyl Acetate  | Not Established     | Not Established    | PPM                               | 1.1                       | 6     | 7     | 6      | 5                     | 6     | 6     | 6                      | 4     | 3                      | 6      | 5             | 7            |          |       |
| 110-19-0 Isobutyl Acetate   | 150                 | 150                | PPM                               | 10.0                      |       |       | 2      |                       | 2     |       |                        | 1     |                        |        |               |              |          |       |
| 628-63-7 Amyl Acetate   | <200>               | <200>              | PPM                               | 12.5                      | 3     | 4     |        |                       |       | 6     |                        |       |                        |        |               |              |          | 8     |
| 26761-40-0 Diisodecyl Phthalate                                   | 100                 | 100                | PPM                               | 4.0                       |       |       | 1      |                       |       |       |                        | 2     |                        |        |               |              |          |       |
| 13463-67-7 Titanium Dioxide                                       | 5                   | 5                  | Mg/M3                             |                           |       |       | 7      |                       |       |       |                        |       |                        |        |               |              |          |       |
| 7758-97-6 Lead Chromate   | 10                  | 10[S]              | Mg/M3 as Dust<br>(Resp. Fraction) |                           | 3     |       | 1      |                       |       |       |                        | 1     |                        |        |               |              |          |       |
| 7429-90-5 Aluminum  | 0.05                | 0.05               | Mg/M3                             |                           |       |       | 4      |                       |       |       |                        |       |                        |        |               |              |          |       |
|   | Not Established     | Not Established    |                                   |                           |       |       |        |                       |       |       |                        |       |                        |        |               |              |          | 2     |
| VOC as a percent by weight, BAAQMD Rule 49                        |                     |                    |                                   |                           | 90    | 87    | 85     | 90                    | 91    | 89    | 91                     | 87    | 90                     | 84     | 86            | 84           | 86       | 87    |
| HMSIS* Rating (Health - Flammability - Reactivity)                |                     |                    |                                   |                           | 3-4-0 | 2-4-0 | 2-4-0  | 2-4-0                 | 2-4-0 | 2-4-0 | 2-4-0                  | 2-4-0 | 2-4-0                  | 2-4-0  | 2-4-0         | 2-4-0        | 2-4-0    | 2-4-0 |

\$ Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.65 C

# Lacquers

## Section III — PHYSICAL DATA

PRODUCT WEIGHT — N.A.  
SPECIFIC GRAVITY — N.A.  
BOILING RANGE — +0-195 °F  
EVAPORATION RATE — Faster than Ether  
VAPOR DENSITY — Heavier than Air  
HEATING POINT — N.A.  
SOLUBILITY IN WATER — N.A.

## Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION FLASH POINT <0 F PKCC LEL 0.5 UEL 36.5  
RED LABEL — Extremely Flammable, Flash below 21 °F

EXTRINSIC MEDIA  
Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS  
Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

## SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be applied to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## Section V — HEALTH HAZARD DATA

ROUTES OF EXPOSURE  
Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. Alcohols and acetate can be absorbed through the skin. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

## EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.  
01926 Yellow contains Lead. (See TABLE and PRODUCT LABEL). Acute occupational exposure to Lead is uncommon, but results in effects and symptoms similar to chronic overexposure described below.

## SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mist.

## MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

## EMERGENCY AND FIRST AID PROCEDURES

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.  
If ON SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use. Get medical attention.

If IN EYES: Flush eyes with large amounts of water for 15 minutes. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Give several glasses of water. Seek medical attention.

## CHRONIC HEALTH HAZARDS

01926 Yellow contains Lead and Chromate (See TABLE and PRODUCT LABEL). Chronic overexposure to Lead may result in damage to the blood-forming, nervous, urinary, or reproductive systems (including embryotoxic effects). Symptoms include abdominal discomfort or pain, constipation, loss of appetite, metallic taste, nausea, insomnia, nervous irritability, weakness, muscle and joint pain, headache and dizziness.

Chromates are listed by IARC and NTP. Although studies have associated exposure to Chromium VI compounds with an increased risk of respiratory cancer, available evidence indicates that Lead Chromate (Chrome Yellow, Holybdate Orange) DOES NOT present this hazard.

No other ingredients in these products is an IARC, NTP or OSHA listed carcinogen. Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary, blood-forming, cardiovascular, and reproductive systems.

Heptyl Ethyl Ketone may increase the nervous system effects of other solvents.

Rats exposed to titanium dioxide dust at 250 mg./m<sup>3</sup> developed lung cancer. However, such exposure levels are not attainable in the workplace.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

## Section VI — REACTIVITY DATA

STABILITY — Stable  
INCOMPATIBILITY  
None known.

## HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide, oxides of Metals listed in Section II  
HAZARDOUS POLYMERIZATION — Will Not Occur

## Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
Remove all sources of ignition. Ventilate and remove with inert absorbent.

## WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste number. Waste from 01926 Yellow must also be tested for Lead and Chromium extractability. Waste from products containing Heptyl Ethyl Ketone may also require testing for extractability.  
Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and local regulations regarding pollution.

## Section VIII — PROTECTION INFORMATION

### PRECAUTIONS TO BE TAKEN IN USE

01926 Yellow contains Lead. (See TABLE and PRODUCT LABEL). Before initial use, consult OSHA's Standard for Occupational Exposure to Lead (29 CFR 1910.1025).  
Use all products only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.  
These coatings may contain materials classified as nuisance particulates (listed "as dust" in Section III) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section II, the applicable limits for nuisance dusts are ACGIH TLV 10 mg./m<sup>3</sup> (total dust), OSHA PEL 15 mg./m<sup>3</sup> (total dust), 5 mg./m<sup>3</sup> (respirable fraction).  
VENTILATION  
Local exhaust preferable. General exhaust acceptable. If the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.  
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for protection against non-volatile materials in Section II.

### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section II.  
EYE PROTECTION  
Wear safety spectacles with unperforated side shields.

## Section IX — PRECAUTIONS

### DOIL STORAGE CATEGORY — 1A

NFPA CODE 308 LEVEL: --3

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are EXTREMELY FLAMMABLE. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved bonding and grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperatures above 120 °F. Heat from sunlight, radiator, stove, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

### OTHER PRECAUTIONS

01926 Yellow contains Lead (See TABLE and PRODUCT LABEL). Do not apply lead-containing paint on toys and other children's articles, furniture, or any interior surface of a dwelling or facility which may be occupied or used by children. Do not apply on any exterior surface of dwelling units, such as window sills, porches, stairs, or railings to which children may be commonly exposed.  
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## Section X — OTHER REGULATORY INFORMATION

### CALIFORNIA PROPOSITION 65

These products contain a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

This Material Safety Sheet conforms to the Hazard Communication standard, 29 CFR 1910.1200(g)(4), for similar complex mixtures.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranty, express or implied, and assume no liability in connection with any use of this information.