

SAFETY DATA SHEET**1. Identification**

Product Name: ID-360 Ink & Stain Remover
Product Code: 195-8141
SDS Date: 9/13/2016
Use: Industrial

Lawson Screen & Digital Products, Inc.
5110 Pernose St., St. Louis, MO 63115

General Information: 314-382-9300
CHEMTREC: 800-424-9300

2. Hazard(s) identification**GHSClassification**

Flammable liquids (Category 3), H226
Skin irritation (Category 2), H315
Serious eye damage (Category 1)
Skin sensitization (Category 1), H317
Aspiration hazard (Category 1), H304
Reproductive toxicity (Category 1B)
Specific target organ toxicity - single exposure (Category 3), Respiratory system

Pictogram

Signalword Danger

HazardStatement

Flammable liquid and vapor
Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction
May be fatal if swallowed and enters airways
May damage fertility or the unborn child
May cause respiratory irritation

Precautionary

Avoid breathing mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Do not handle until all safety precautions have been read and understood. Ground/bond container and receiving equipment. Keep away from heat/sparks/open flames/hot surfaces-no smoking. Keep container tightly closed. Obtain special instructions before use. Take precautionary measure against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Call a poison center/doctor if you feel unwell. If exposed

or concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. In case of fire: Use water fog or fine spray, dry chemical fire extinguishers, carbon dioxide fire extinguishers and foam to extinguish. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local /regional/ national/international regulations.

Hazards not otherwise classified: Not available

3. Composition/information on ingredients

| Name | CAS | Concentration |
|--|-----------|---------------|
| N-Methyl-2-Pyrrolidone | 872-50-4 | 1-30 |
| D-Limonene | 5989-27-5 | 1-30 |
| Dimethyl Succinate | 106-65-0 | 1-30 |
| Dimethyl Adipate | 627-93-0 | 1-30 |
| Dimethyl Glutarate | 1119-40-0 | 1-30 |
| Benzyl Alcohol | 100-51-6 | 1-30 |
| Polyoxyethylene mono(octylphenyl)ether | 9002-93-1 | 1-30 |

4. First-aid measures

General Advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If Inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In Case of Skin Contact Wash off with soap and plenty of water. Consult a physician.

In Case of Eye Contact Flush eyes with water as a precaution.

If Swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indications of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Hazards Carbon oxides

Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

Further Information

Use water spray to cool unopened containers.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. Handling and storage

Safe Handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Safe Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure controls/personal protection

| Name | | CAS | |
|------------------------|-------------------|-------------------|-------------------|
| N-Methyl-2-Pyrrolidone | | 872-50-4 | |
| OSHA TWA | OSHA STEL | ACGIH TWA | ACGIH STEL |
| No data available | No data available | No data available | No data available |
| D-Limonene | | 5989-27-5 | |
| OSHA TWA | OSHA STEL | ACGIH TWA | ACGIH STEL |
| Not Available | Not Available | 20 ppm | Not Available |
| Dimethyl Succinate | | 106-65-0 | |
| OSHA TWA | OSHA STEL | ACGIH TWA | ACGIH STEL |
| Not Available | Not Available | Not Available | Not Available |
| Dimethyl Adipate | | 627-93-0 | |
| OSHA TWA | OSHA STEL | ACGIH TWA | ACGIH STEL |
| Not Available | Not Available | Not Available | Not Available |

| | | | |
|--|---------------|---------------|---------------|
| Dimethyl Glutarate | | 1119-40-0 | |
| OSHA TWA | OSHA STEL | ACGIH TWA | ACGIH STEL |
| Not Available | Not Available | Not Available | Not Available |
| Benzyl Alcohol | | 100-51-6 | |
| OSHA TWA | OSHA STEL | ACGIH TWA | ACGIH STEL |
| Not Available | Not Available | Not Available | Not Available |
| Polyoxyethylene mono(octylphenyl)ether | | 9002-93-1 | |
| OSHA TWA | OSHA STEL | ACGIH TWA | ACGIH STEL |
| Not Available | Not Available | Not Available | Not Available |

Engineering Control Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Eye/Face Protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection Handle with nitrile rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental Exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and chemical properties

| | | |
|------------------------------------|------------|---|
| Appearance | D-Limonene | Liquid |
| Odor | D-Limonene | characteristic |
| Odor Threshold | D-Limonene | No data available |
| pH | D-Limonene | No data available |
| Melting/Freezing Point | D-Limonene | Melting point/range: -74.3 °C (-101.7 °F) |
| Initial Boiling Point/Range | D-Limonene | 175 - 176 °C (347 - 349 °F) |

| | | |
|----------------------------------|------------|---|
| Flash Point | D-Limonene | 50 °C (122 °F) |
| Evaporation Rate | D-Limonene | No data available |
| Flammability | D-Limonene | No data available |
| Upper Explosion Limit | D-Limonene | 6.1% |
| Lower Explosion Limit | D-Limonene | 0.7% |
| Vapor Pressure | D-Limonene | 50 hPa (38 mmHg) at ca.50 °C (122 °F) |
| Vapor Density | D-Limonene | 4.70 - (Air = 1.0) |
| Relative Density | D-Limonene | 0.84 g/cm ³ at 25 °C (77 °F) |
| Water Solubility | D-Limonene | immiscible |
| Partition Coefficient | D-Limonene | log Pow: 4.2 |
| Auto Ignition Temperature | D-Limonene | 245 °C (473 °F) at 995 hPa (746 mmHg) |
| Decomposition Temperature | D-Limonene | No data available |
| Viscosity | D-Limonene | No data available |

10. Stability and reactivity

| | |
|---|--|
| Reactivity | No data available |
| Chemical Stability | Stable under recommended storage conditions. |
| Possibility of Hazardous Reactions | No data available |
| Conditions to Avoid | Heat, flames and sparks. |
| Incompatible materials | Strong oxidizing agents |
| Hazardous Decomposition Products | No data available |

11. Toxicological information

| Name | CAS |
|--|------------------------|
| N-Methyl-2-Pyrrolidone | 872-50-4 |
| LD50 Oral - Rat - 3,914 mg/kg | |
| LDLO Inhalation - Rat - 4 h - > 5100 ppm | |
| LD50 Dermal - Rabbit - 8,000 mg/kg | |
| Skin corrosion/irritation | No data available |
| Serious eye damage/eye irritation | Result: Eye irritation |
| Respiratory or skin sensitization | No data available |
| Germ cell mutagenicity | No data available |

Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, ACGIH, or OSHA

Reproductive Damage to fetus possible

Additional information Inhalation - May cause respiratory irritation.

| Name | CAS |
|---|-----------|
| D-Limonene | 5989-27-5 |
| LD50 Oral - Rat - 4,400 mg/kg | |
| Inhalation: No data available | |
| LD50 Dermal - Rabbit - > 5,000 mg/kg | |
| Skin corrosion/irritation No data available | |
| Serious eye damage/eye irritation Result: No eye irritation | |
| Respiratory or skin sensitization Result: May cause sensitisation by skin contact. | |
| Germ cell mutagenicity Result: negative | |
| Carcinogenicity IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (D-Limonene) | |
| Reproductive No data available | |
| Additional information no data available | |

| Name | CAS |
|--|----------|
| Dimethyl Succinate | 106-65-0 |
| LD50 Oral - Rat - female - 6,892 mg/kg | |
| LD50 Inhalation - Rat - male and female - > 2,000 mg/l | |
| LD50 Dermal - Rabbit - > 5,000 mg/kg | |
| Skin corrosion/irritation Result: No skin irritation | |
| Serious eye damage/eye irritation Result: Mild eye irritation | |
| Respiratory or skin sensitization Result: Did not cause sensitisation on laboratory animals. | |
| Germ cell mutagenicity Result: negative | |
| Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA | |
| Reproductive No data available | |
| Additional information No data available | |

| Name | CAS |
|---|------------|
| Dimethyl Adipate | 627-93-0 |
| LD50 Oral - Rat - male and female - > 5,000 mg/kg | |
| Inhalation: No data available | |
| LD50 Dermal - Rabbit - male and female - > 1,000 mg/kg | |
| Skin corrosion/irritation Result: No skin irritation - 4 h | |
| Serious eye damage/eye irritation Result: No eye irritation | |
| Respiratory or skin sensitization No data available | |
| Germ cell mutagenicity Result: negative | |
| Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA | |
| Reproductive Rat: Effects on Fertility: Post-implantation mortality, Specific Developmental Abnormalities: Musculoskeletal system. | |
| Additional information No data available | |

| Name | CAS |
|---|------------|
| Dimethyl Glutarate | 1119-40-0 |
| Oral: no data available | |
| Inhalation: no data available | |
| Dermal: no data available | |
| Skin corrosion/irritation no data available | |
| Serious eye damage/eye irritation no data available | |
| Respiratory or skin sensitization no data available | |
| Germ cell mutagenicity no data available | |
| Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA | |
| Reproductive no data available | |
| Additional information no data available | |

| Name | CAS |
|---|----------|
| Benzyl Alcohol | 100-51-6 |
| LD50 Oral - Rat - 1,230 mg/kg, LD50 Oral - Rat - male - 1,620 mg/kg | |
| Inhalation: No data available | |
| Dermal: No data available | |
| Skin corrosion/irritation Result: No skin irritation - 24 h | |
| Serious eye damage/eye irritation Result: Eye irritation - 24 h | |
| Respiratory or skin sensitization No data available | |
| Germ cell mutagenicity No data available | |
| Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA | |
| Reproductive No data available | |
| Additional information Central nervous system depression | |

| Name | CAS |
|---|-----------|
| Polyoxyethylene mono(octylphenyl)ether | 9002-93-1 |
| LD50 Oral - Rat - 1,800 mg/kg | |
| Inhalation: No data available | |
| LD50 Dermal - Rabbit - 8,000 mg/kg | |
| Skin corrosion/irritation No data available | |
| Serious eye damage/eye irritation Result: Moderate eye irritation - 24 h | |
| Respiratory or skin sensitization No data available | |
| Germ cell mutagenicity No data available | |
| Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA | |
| Reproductive No data available | |
| Additional information No data available | |

12. Ecological information

| Name | CAS | Toxicity |
|------------------------|----------|--|
| N-Methyl-2-Pyrrolidone | 872-50-4 | LC50 - other fish - 4,000 mg/l - 96 h LC50 - Leuciscus idus (Golden orfe) - > 500 mg/l - 96 h EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 24 h Toxicity to bacteria LC50 - Bacteria - > 9,000 mg/l |

| | | |
|----------------------------|-----------|---|
| D-Limonene | 5989-27-5 | flow-through test LC50 - Pimephales promelas (fathead minnow) - 0.72 mg/l - 96 h Immobilization EC50 - Daphnia magna (Water flea) - 0.36 mg/l - 48 h Toxicity to bacteria EC50 - Sludge Treatment - 3.94 mg/l |
| Dimethyl Succinate | 106-65-0 | semi-static test LC50 - Danio rerio (zebra fish) - 50 - 100 mg/l - 96 h static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h Toxicity to bacteria Growth inhibition EC50 - Sludge Treatment - > 1,000 mg/l - 3 h |
| Dimethyl Adipate | 627-93-0 | static test EC50 - Daphnia magna (Water flea) - 72 mg/l - 48 h Toxicity to algae static test - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h |
| Dimethyl Glutarate | 1119-40-0 | no data available |
| Benzyl Alcohol | 100-51-6 | LC50 - Lepomis macrochirus (Bluegill) - 10 mg/l - 96 h, LC50 - Pimephales promelas (fathead minnow) - 460 mg/l - 96 h, EC50 - Daphnia magna (Water flea) - 55 mg/l - 24 h, Daphnia magna (Water flea) - 230 mg/l - 48 h |
| Polyoxyethylene mono(octyl | 9002-93-1 | LC50 - Pimephales promelas (fathead minnow) - 8.9 mg/l - 96.0 h, EC50 - Daphnia (water flea) - 26 mg/l - 48 h |

13. Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport information

| | |
|------------------------------|---|
| Proper Shipping Name | Combustible Liquid, n.o.s. (d-Limonene) |
| Hazard Class | Combustible |
| Identification Number | NA1993 |
| Packing Group | III |
| Label | Combustible |

15. Regulatory information

| Name | CAS |
|------------------------|----------|
| N-Methyl-2-Pyrrolidone | 872-50-4 |

SARA 302/304 No components were identified

SARA 313 313

CERCLA No components were identified

SARA 311/312 Fire Hazard, Acute Health Hazard, Chronic Health Hazard

PROP 65 Developmental hazard

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

| Name | CAS |
|------------|-----------|
| D-Limonene | 5989-27-5 |

SARA 302/304 No components were identified

SARA 313 No components were identified

CERCLA No components were identified

SARA 311/312 Fire Hazard, Acute Health Hazard, Chronic Health Hazard

PROP 65 No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

| Name | CAS |
|--------------------|----------|
| Dimethyl Succinate | 106-65-0 |

SARA 302/304 No components were identified

SARA 313 No components were identified

CERCLA No components were identified

SARA 311/312 Fire Hazard

PROP 65 No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

| Name | CAS |
|------------------|----------|
| Dimethyl Adipate | 627-93-0 |

SARA 302/304 No components were identified

SARA 313 No components were identified

CERCLA No components were identified

SARA 311/312 Chronic Health Hazard

PROP 65 No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

| Name | CAS |
|--------------------|-----------|
| Dimethyl Glutarate | 1119-40-0 |

SARA 302/304 No components were identified

SARA 313 No components were identified

CERCLA No components were identified

SARA 311/312 Fire Hazard

PROP 65 No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

| Name | CAS |
|---------------------|--|
| Benzyl Alcohol | 100-51-6 |
| SARA 302/304 | No components were identified |
| SARA 313 | No components were identified |
| CERCLA | No components were identified |
| SARA 311/312 | Acute Health Hazard, Chronic Health Hazard |
| PROP 65 | No components were identified |

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

| Name | CAS |
|--|-------------------------------|
| Polyoxyethylene mono(octylphenyl)ether | 9002-93-1 |
| SARA 302/304 | No components were identified |
| SARA 313 | No components were identified |
| CERCLA | No components were identified |
| SARA 311/312 | Acute Health Hazard |
| PROP 65 | No components were identified |

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

16. Other information, including date of preparation or last revision

SDS Date: 9/13/2016

Disclaimer:

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